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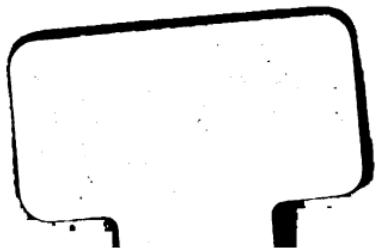
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OR

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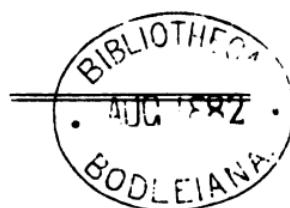
"That which we foolishly call vastness is, rightly considered, not more wonderful, nor more impressive, than that which we insolently call littleness." --RUSKIN.

"Would you know the eternal,
Study what is around you."

GONTIK.

THE
STUDENT'S LIST
OF
BRITISH COLEOPTERA,
WITH
SYNOPTIC TABLES OF THE FAMILIES
AND GENERA.

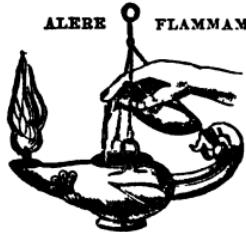
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P R E F A C E.

LISTS are necessarily compilations ; and in this one I have almost entirely depended on the authority of previous compilers. For British species I have taken Dr. Sharp's 'Catalogue' (1871) as the most recent ; and for synonyms I have gone principally to Gemminger and de Harold's 'Catalogus' (1868-74) and Stein and Weise's 'Catalogi' (1877). These, I think, contain the conclusions generally arrived at by Schaum, Erichson, Kraatz, and others, although there are often discrepancies in their determinations. Nor is this to be wondered at. Lacordaire maintained that to decide names from the older descriptions was impossible. Except in a few cases where the names seem to have survived without interruption, I have confined myself to such changes as do not go behind the last fifty years, or thereabouts, when the modern idea of genera began to be entertained.

Putting aside "the terrible mischief resulting from the constant alterations of names on the grounds of priority," the question remains, Is it desirable to change names which have been in use for the last fifty, or even hundred, years, and about which we have no doubt, for those supposed to be used in the dark ages of systematic entomology, which, in many (perhaps in most) cases

are uncertain?* Those authors had no scruple in altering their own names any more than those of their predecessors, and even taking their names and applying them to genera (or what they called genera) of their own. There can be no injustice therefore in disregarding claims, if such they be, given by a law which had then no existence.

Although the law of priority was mooted at an earlier date, the principle does not appear to have been acted on until after 1842; and in the Dresden Congress of 1858 it was expressly provided that the rule should not be absolute. For myself I decline to be bound by any absolute rule. When the name is barbarous, or absurd, or the very opposite of the character it ought to express, I take any better name, whatever its claims to priority may be. The law (good in some respects) has led to a scamping of descriptions, *pour prendre date* as our neighbours tersely say, and to an introduction of names, generic and specific, that would never have been proposed but for the supposed necessity of their being adopted.

Among some of the last-century writers whose names (mostly specific) it is now sought to revive, are Poda (1761), Goeze (1777), Schrank (1781), Piller (1783), Zachach (1788), Brahm (1790), Hoppe (1795), and Creutzer (1799). Geoffroy (1762), who was thought to be in advance of his age, took the characters of his genera almost invariably from the antennæ. Linnæus, in one of his earliest works (*Elenchus Animalium*), so managed

* The uncertainty lies in this, that their descriptions are "unrecognizable," and made without a knowledge of allied species; the insect they had in view can only be guessed at; and the guessing admits of no prospect of agreement. In their descriptions of genera the most important parts of structure remained unnoticed.

Necydalis as to include *Clerus*, *Rhagium*, *Panagæus*, and *Attelabus*. In short the writers of those days seem to have framed their descriptions so as to embrace as many species as they could in one genus*; and the few species they knew were described with a brevity that might equally well suit half a dozen others.

The confusion, great as it already is, is only beginning if the law of priority is to be carried back to the last century. Just now *Tritoma*, so named by Geoffroy from the "three pieces composing the tarsi," is proposed to supersede *Mycetophagus*, and *Anthribus* to supersede *Brachytarsus*. By and by we shall have *Blatta* for *Blaps*†, *Attelabus* for *Tenebrio*, *Rhinomacer* for *Rhynchites*, *Bruchus* for *Ptinus*, *Mylabris* for *Bruchus*, *Cistela* for *Byrrhus*, *Byrrhus* for *Anobium*, and so on for others. So long as this resurrectionary mania lasts, it is useless to look for any permanence in nomenclature as far as European species are concerned.

The additions made to the beetle-fauna of the British Islands during the last ten or dozen years have not been many, and their

* Marsham, who, however, published his 'Entomologia Britannica' in 1802, has 68 species in *Dermestes* as it was then understood. Geoffroy described two new species of the same genus? the one in five, the other in six Latin words, accompanied by a French translation. But these are extreme cases.

† Since some modern authors draw the line behind which priority has no rights at the 10th edition of the 'Systema Naturæ' (1758), and others think the proper line is the 12th (1767), they may object to *Blatta* displacing *Blaps*; but, as has been well observed, the 1st edition (1735) "is the only consistent starting-point," since genera were then, for the first time, recognized. Trivial names did not make their appearance until 1751; this date may form another starting-point.

discovery and working out have been due chiefly to Mr. E. C. Rye and Dr. Sharp. Messrs. Janson, Champion, and Dr. Power have also done good work. It is probable that I may have overlooked some species; but I am inclined to think there are others on the list that are not now indigenous, if ever they were. Still there are some, like *Calosoma sycophanta*, that do occasionally find their way to our shores or that lie *perdu* in out-of-the-way places; and it is perhaps as well that they should appear in our lists.

It will be noticed that some of the characters given in the Tables are of a rather feeble kind; but, probably, they might be supplemented or replaced by others which would be less convenient to introduce in a tabulated form. Two exceptions occur in the usual arrangement here adopted; in one genus (*Homalota*), owing to the number, I have placed the species alphabetically; in the other (*Feronia*) the British species are capable of being grouped into fairly natural genera, such as are there indicated; but the exotic species are not susceptible of satisfactory delimitation as genera, although attempts have been made, but not with the same results.

The number of tarsal joints which characterizes the primary divisions of the Coleoptera is subject to numerous exceptions; indeed exceptions occur in almost every group, and will serve to explain two or three apparent contradictions in the Tables.

Brackets [] indicate that the name so placed has priority over the one adopted.

THE STUDENT'S LIST
OF
BRITISH COLEOPTERA.

Synopsis of the Families.

TRIMERA.

- a. Maxillary palpi with the last joint securiform (*Aphidiphaga*).
One family only **COCCINELLIDÆ.**
- a'. Maxillary palpi with the last joint filiform (*Fungivora*).
b. Third joint of the tarsi rudimentary **ENDOMYCHIDÆ.**
- b'. Third joint of the tarsi distinct **MYCETÆIDÆ.**

TETRAMERA.

- a. Head not rostrate.
b. Maxillæ with two lobes.
c. Antennæ clavate (*Clavipalpi*).
One British family only **EROTYLIDÆ.**
- c'. Antennæ linear or filiform.
d. Body more or less rounded (*Phytophaga*).
e. Antennæ not approximate at the base.
f. Head exserted, narrowed behind **CRIOCERIDÆ.**
- f'. Head ensconced in the prothorax. **LIDÆ.**
- g. Elytra not covering the pygidium **CRYPTOCEPHALIDÆ.**
- g'. Elytra covering the pygidium **CHRYSOMELIDÆ.**
- e'. Antennæ contiguous or approximate at the base.
h. Prothorax and elytra with a dilated border ... **CASSIDIDÆ.**
- h'. Prothorax and elytra without a dilated border.
i. Femora thickened : saltatorial **HALTICIDÆ.**

- i'. Femora not thickened: non-saltatorial..... **GALERUCIDÆ.**
- d'. Body more or less oblong (*Longicornia*).
- j. Last joint of the palpi pointed **LAMIIDÆ.**
- j". Last joint of the palpi obtuse.
- k. Pronotum marginate at its junction with the sides of the prothorax **PRIONIDÆ.**
- k'. Pronotum not marginate **CERAMBYCIDÆ.**
- b. Maxillæ with one lobe (*Xylophaga*).
One family only **SCOLYTIDÆ.**
[Maxillary palpi three-jointed.]
- a'. Head rostrate (*Rhynchophora*).
- l. Third joint of the tarsi deeply embayed in the second **ANTHRIBIDÆ.**
- l'. Third joint of the tarsi free, generally bilobed.
- m. Rostrum with a scrobe **CURCULIONIDÆ.**
- m'. Rostrum without a scrobe **BRUCHIDÆ.**

HETEROMERA.

- a. Head narrowed behind, generally forming a neck (*Trachelida*).
- b. Prothorax of normal form.
- c. Anterior coryloid cavities closed **LAGRIIDÆ.**
- c'. Anterior coryloid cavities open.
- d. Pronotum confounded with the sides of the prothorax.
- e. Head abruptly contracted behind.
- f. Claws branched.
- g. Metasternum elongate **CANTHARIDÆ.**
- g'. Metasternum very short **MELOIDÆ.**
- f'. Claws bifid **RHIPIPHORIDÆ.**
- f''. Claws simple **PYROCHROIDÆ.**
- e'. Head slightly contracted behind.
- h. Antennæ filiform **ŒDEMERIDÆ.**
- h'. Antennæ stouter or gradually thickened **PYTHIDÆ.**
- d'. Pronotum distinct.
- i. Head slightly contracted behind **MELANDRYIDÆ.**
- i'. Head abruptly contracted behind.
- j. Head in repose lying on the anterior coxae ... **MORDELLIDÆ.**
- j'. Head free.
- k. Posterior coxae contiguous **PEDILIDÆ.**
- k'. Posterior coxae not contiguous **ANTHICIDÆ.**
- b'. Prothorax united to the mesothorax and having a neck-like form **STYLOPIDÆ.**

- a'*. Head not narrowed behind (*Atrachelia*).
l. Claws serrate..... CISTELIDÆ.
l'. Claws simple TENEBRIONIDÆ.

PENTAMERA.

- a*. One palpus to each maxilla.
b. Elytra of normal length.
c. Antennæ filiform, serrate, or pectinate.
d. Prosternum not produced anteriorly (*Malacodermi*).
e. Elytra soft and flexible TELEPHORIDÆ.
e'. Elytra rigid.
f. Metasternum of normal length.
g. Eyes entire.
h. Head narrowed anteriorly DASCILLIDÆ.
h'. Head not narrowed anteriorly.
i. Anterior coxae conical.
j. First abdominal segment not longer than the others PTINIDÆ.
j'. First abdominal segment longest BOSTRICHIDÆ.
i'. Anterior coxae transverse CIOIDÆ.
g'. Eyes emarginate CLERIDÆ.
f'. Metasternum elongate LYMEXYLIDÆ.
d'. Prosternum produced anteriorly (*Sternoxi*).
k. Antennæ lying in repose in prosternal grooves. THROSCIDÆ.
k'. Antennæ free in repose.
l. Antennæ inserted between the eyes EUCNEMIDÆ.
l'. Antennæ inserted in front of the eyes.
m. Prosternum produced anteriorly ELATERIDÆ.
m'. Prosternum not produced..... BUPRESTIDÆ.
c'. Antennæ not serrate nor filiform.
n. Palpi of normal size.
o. Antennæ lamelliferous (*Lamellicornia*).
p. Lamelliferous joints contiguous in repose..... SCARABÆIDÆ.
p'. Lamelliferous joints not contiguous..... LUCANIDÆ.
o'. Antennæ clavate (*Clavicornia*).
q. Antennæ of normal length: terrestrial.
r. Prosternum produced anteriorly HISTERIDÆ.
r'. Prosternum not produced.
s. Maxilla bilobed.
t. Posterior coxae movable.
u. Pygidium covered.
v. Abdomen with six segments.

- w. Wings ciliated TRICHOPTERY-
w'. Wings not ciliated. [GIDÆ.]
- x. Posterior coxae transverse, contiguous SILPHIDÆ.
- x'. Posterior coxae not transverse nor contiguous.
- y. First abdominal segment of normal size SCYDMENIDÆ.
- y'. First abdominal segment very large CORYLOPHIDÆ.
- v'. Abdomen with five segments.
- z. Anterior coxae globose.
- aa. One or two apical segments of the abdomen
only movable COLYDIIDÆ.
- aa'. All the segments movable.
- bb. Claws simple.
- cc. Segments of the abdomen nearly equal in size. CUCUJIDÆ.
- cc'. Basal segment largest CRYPTOPHA-
GIDÆ.
- bb'. Claws toothed at the base PHALACRIDÆ.
- z'. Anterior coxae transverse TROGOSITIDÆ.
- w'. Pygidium uncovered SCAPHIDIIDÆ.
- t'. Posterior coxae immovable.
- dd. Legs retractile BYRRHIDÆ.
- dd'. Legs not retractile DERMESTIDÆ.
- s'. Maxillæ with one lobe only NTITIDULIDÆ.
- q'. Antennæ short: aquatic.
- ee. Tarsi 4-jointed.
- ff. Club of the antennæ 7-jointed HETEROERIDÆ.
- ff'. Club of the antennæ 3-jointed GEORSSIDÆ.
- ee'. Tarsi 5-jointed PARNIDÆ.
- n'. Palpi longer than the antennæ (*Palpicornia*):
- gg. Basal joint of the posterior tarsi very short... HYDROPHILIDÆ.
- gg'. Basal joint of the posterior tarsi of normal
length SPHERIDIIDÆ.
- b'. Elytra very short.
- hh. Abdomen with six or seven movable segments. STAPHYLINIDÆ.
- hh'. Abdomen with five nearly fixed segments ... PSELAPHIDÆ.
- a'. Two palpi to each maxilla (*Adephaga*).
- ii. Antennæ glabrous: aquatic.
- jj. Two eyes on each side GYRINIDÆ.
- jj'. One eye on each side DYTICIDÆ.
- ii'. Antennæ pubescent, except at the base: ter-
restrial.
- kk. Antennæ inserted behind at the base of the
mandibles CARABIDÆ.
- kk'. Antennæ inserted in front above the base of
the mandibles CICINDELIDÆ.

Genera and Species of British Coleoptera.

COCCINELLIDÆ.

- Body glabrous.
- Epipleura of the elytra with cavities for the reception of the intermediate and posterior femora. *Hyperaspis*.
- Epipleura of the elytra without cavities.
- Antennæ uncovered at the base.
- Femora extending beyond the elytra.
- Head deeply ensconced in the prothorax. *Anisosticta*.
 - Head exserted *Hippodamia*.
- Femora not extending beyond the elytra.
- Scutellum distinct, triangular.
- Claws bifid..... *Mysia*.
 - Claws appendiculate.
 - Abdominal plates strongly developed.
 - Club of the antennæ with the joints transverse *Coccinella*.
 - Club of the antennæ with the joints more elongate *Halyzia*.
 - Abdominal plates feebly developed... *Adalia*.
- Scutellum not distinct, punctiform..... *Micraspis*.
- Antennæ covered at the base.
- Tibiae toothed at the base..... *Chilocorus*.
 - Tibiae not toothed..... *Exochomus*.
- Body pubescent.
- Elytra not striate.
- Elytra broader at the base than the prothorax.
- Claws bifid, the divisions equal *Epilachna*.
 - Claws bifid, the divisions unequal *Lasia*.
- Elytra not broader at the base than the prothorax.
- Base of the antennæ covered *Platynaspis*.
 - Base of the antennæ not covered.
 - Antennæ not attaining the base of the prothorax *Scymnus*.
 - Antennæ attaining the base *Rhizobius*.
- Elytra striate-punctate
- | | |
|---------------------------|--------------------------------|
| <i>Coccidula</i> , Kug. | <i>Scymnus</i> , Kug. |
| <i>scutellata</i> , Hbst. | <i>minimus</i> , Rossi. |
| <i>rufa</i> , Hbst. | <i>ater</i> , Kug. |
| <i>Rhizobius</i> , Steph. | <i>capitatus</i> , F. |
| <i>litura</i> , F. | <i>haemorrhoidalis</i> , Hbst. |
| | <i>limbatus</i> , Steph. |

*scutellaris, Muls.**Mulsanti, Wat.**discoideus, Ill.**frontalis, F.**pygmæus, Fourc.**nigrinus, Kug.**Platynaspis, Redt.**villosa, Fourc.**Lasia, Muls.**globosa, Schn.**Hyperaspis, Redt.**Reppensis, Hbst.**Exochomus, Redt.**4-pustulatus, L.**auritus, Scr.**Chilocorus, Sch.**bipustulatus, L.**renipustulatus, Scr.**Micraspis, Redt.**16-punctata, L.**v. 12-punctata, L.**Halyzia, Muls.**22-punctata, L.**14-punctata, L.**ocellata, L.**18-guttata, L.**14-guttata, L.**16-guttata, L.**12-guttata, L.**Coccinella, L.**Anthrenus, p., Geoff.**variabilis, L.**11-punctata, L.**hieroglyphica, L.**5-punctata, L.**7-punctata, L.**distincta, Fald.**labilis, Muls.**Adalia, Muls.**obliterata, L.**bipunctata, L.**Anisosticta, Dupl.**19-punctata, L.**Hippodamia, Muls.**mutabilis, Scr.**13-punctata, L.*

ENDOMYCHIDÆ.

- Anterior coxae contiguous *Lycoperdina*.
 Anterior coxae not contiguous *Endomychus*.

*Lycoperdina, Latr.**bovistæ, F.**Endomychus, Pans.**coccineus, L.*

MYCETAIIDÆ.

Antennæ 11-jointed.

- Prothorax with a lateral groove *Mycetæa*.
 Prothorax without a lateral groove *Symbiotes*.
 Antennæ 10-jointed *Alexia*.

Mycetæa, Steph.
hirta, Msh.

Alexia, Steph.
pilifera, Müll.

Symbiotes, Redt.
latus, Redt.

EROTYLIDÆ.

Fourth tarsal joint indistinct or rudimentary.

Prosternum convex, truncate behind *Triplax*.

Prosternum flat, triangular *Tritoma*.

Fourth tarsal joint distinct *Dacne*.

Tritoma, F.

melanocephala, Latr.

Cyrtotriplax, Crotch.

ruficollis, Steph.

bipustulata, F.

nigriiceps, Lac.

Triplax, Hbst.

Dacne, Latr.

russica, L.

Engis, Payk.

senea, Schal.

humeralis, F.

Lacordairei, Crotch.

ruffifrons, F.

bicolor, Steph.

CASSIDIDÆ.

Cassida, L.

vittata, Vill.

oblonga, Ill.

murraea, L.

nobilis, L.

fastuosa, Sch.?

nebulosa, L.

vittata, F.

ferruginea, F.

vibex, L.

obsoleta, Ill.

viridis, F.

ferruginea, Msh.

rubiginosa, Müll.

viridis, L.

chloris, Suff.

equestris, F.

sanguinolenta, Müll.

hemispherica, Hbst.

GALERUCIDÆ.

Claws bifid.

First joint of the posterior tarsi as long as the next two together *Adimonia*.

First joint of the posterior tarsi shorter than the next two together *Galeruca*.

Claws toothed at the base.

Posterior tibiae spurred.

Antennæ shorter than the body.

Anterior cotoyloid cavities open *Agelastica*.

- Anterior cotyloid cavities closed *Sermyla*.
 Antennæ longer than the body *Lyperus*.
 Posterior tibiae not spurred *Phyllobrotica*.

Adimonia, Laich.

tanaceti, L.
celandica, Boh.
sanguinea, F.
cratægi, Duf.
caprea, L.
suturalis, Th.

Galeruca, Geoff.

Galerucella, Crotch.
viburni, Pk.
lineola, F.
calmariensis, L.
nymphæa, L.
 sagittariae, Gyll.
tenella, L.

Agelastica, Redt.

alni, L.

Sermyla, Chap.

Halensis, L.

Phyllobrotica, Redt.

4-maculata, L.

Lyperus, Geoff.

Calomicros, Steph.
circumfusus, Mah.
rufipes, Scop.
 betulinus, Joan.
flavipes, L.

HALTICIDÆ.

Mesosternum uncovered.

Antennæ 11-jointed.

Ventral segments of the abdomen free.

Body oblong.

Prothorax with a transverse basal groove.

Anterior cotyloid cavities closed.

Body glabrous *Crepidodera*.

Body pubescent *Epitrix*.

Anterior cotyloid cavities open.

Groove abbreviated at the sides ... *Hermaeophaga*.

Groove continued to the sides *Haltica*.

Prothorax without a basal groove.

Anterior cotyloid cavities open.

Elytra striate-punctate *Batophila*.

Elytra irregularly punctured.

Posterior tarsi elongate *Thyamis*.

Posterior tarsi not elongate.

Posterior tibiae canaliculate... *Aphthona*.

Posterior tibiae not canaliculate *Phyllotreta*.

Anterior coryloid cavities closed.	
Elytra striate-punctate	<i>Mantura.</i>
Elytra irregularly punctured	<i>Podagrlica.</i>
Body semiglobose	<i>Sphæroderma.</i>
Two basal segments of the abdomen united	<i>Chætocnema.</i>
Antennæ 10-jointed	<i>Psylliodes.</i>
Mesosternum covered by the pro- and metasterna.	
Antennæ subfiliform	<i>Apteropeda.</i>
Antennæ subclavate	<i>Mniophila.</i>

Sphæroderma , Steph.	helxines, <i>L.</i> chloris, <i>Foud.</i>
testacea, <i>F.</i>	helxines, <i>Pz.</i>
cardui, <i>Gyll.</i>	Modeeri, <i>L.</i>
Mniophila , Steph.	salicariae, <i>Pk.</i>
muscorum, <i>Koch.</i>	ventralis, <i>Ill.</i>
Apteropeda , Redt.	Epitrix , <i>Foud.</i>
globosa, <i>Ill.</i>	atropæ, <i>Foud.</i>
orbiculata, <i>Msh.</i>	pubescens, <i>Koch.</i>
graminis, <i>Koch.</i>	
splendida, <i>All.</i>	Batophila , <i>Foud.</i>
Hermæophaga , <i>Foud.</i>	rubi, <i>Pk.</i>
Linozosta, <i>All.</i>	serata, <i>Msh.</i>
mercurialis, <i>F.</i>	
Mantura , Steph.	Haltica , <i>Geoff.</i>
rustica, <i>L.</i>	[Mordella, <i>L.</i>]
semiænea, <i>F.</i>	Graptodera, p., <i>All.</i>
chrysanthemi, <i>Koch.</i>	Coryli, <i>All.</i>
obtusata, <i>Gyll.</i>	ampelophaga, <i>Guér.</i>
Matthewsii, <i>Curt.</i>	consobrina, <i>Foud.</i>
Crepidodera , <i>All.</i>	lythri, <i>Aub.</i>
transversa, <i>Msh.</i>	ericeti, <i>All.</i>
exoleta, <i>Ol.</i>	♂ longicollis, <i>All.</i>
ferruginea, <i>Scop.</i>	oleracea, <i>L.</i>
exoleta, <i>F.</i>	helianthemi, <i>All.</i>
rufipes, <i>L.</i>	pusilla, <i>Duft.</i>
nitidula, <i>L.</i>	
aurata, <i>Msh.</i>	Podagrlica , <i>Foud.</i>
	fuscipes, <i>F.</i>
	fuscicornis, <i>L.</i>

Phyllotreta, Foud.

flexuosa, Ill.
v. tetrastigma, Com.
brassicae, F.
ochripes, Curt.
sinuata, Steph.
 flexuosa, Pz.
nemorum, L.
undulata, Ktz.
vittula, Redt.
atra, Pk.
obscurella, Ill.
punctulata, Msh.
melsana, Ill.
lepidii, Koch.
 nigripes, F.
nodicornis, Msh.

Aphthona, Ill.

luteocens, Gyll.
nigripes, Redt.
cerulea, Fourc.
v. pseudacori, Msh.
hilaris, Steph.
herbigrada, Curt.
venustula, Kuts.
atrocærulea, Steph.
 cyanella, Redt.
atratula, All.

Chætocnema, Steph.

Plectroscelis, Redt.

concinna, Msh.
aridella, Pk.
Sahlbergii, Gyll.
subcærulea, Kuts.
aridula, Gyll.
confusa, Boh.

Thyamis, Steph.

Longitarsus, Latr.
obliterata, Rossi.
anchusæ, Pk.

absinthii, Kuts.
nigra, Koch.
parvula, Pk.
holistica, L.
4-pustulata, F.
castanea, Duft.
lurida, Scop.
brunnea, Duft.
dorsalis, F.
nasturtii, F.
v. pratensis, Koch.
suturalis, Msh.
 thoracica, Steph.
nasturtii, Gyll.
tabida, F.
 verbasci, Pz.
v. thapsus, Msh.
patruelis, All.
atricilla, L.
distinguenda, Rye.
atriceps, Kuts.
melanocephala, De G.
picioeps, Steph.
 Poweri, All.
Foudrasii, Crotch.
lycopi, Foud.
ballotæ, Msh.
pallens, Steph.
medicaginis, All.
fuscula, Kuts.
pusilla, Gyll.
exoleta, L.
 femoralis, Msh.
Reichei, All.
rutila, Ill.
pratensis, Pz.
 Waterhousei, Kuts.
jacobææ, Wat.
 tabida, Ol.
agilis, Rye.
flavicornis, Steph.
ochroleuca, Msh.
 ferruginea, Foud.
pellucida, Foud.

<i>teucrii</i> , <i>All.</i>	<i>chrysocephalus</i> , <i>L.</i>
<i>membranacea</i> , <i>Foud.</i>	<i>napi</i> , <i>F.</i>
<i>lævis</i> , <i>Duft.</i>	<i>cyanopterus</i> , <i>Ill.</i>
<i>cerina</i> , <i>Foud.</i>	<i>napi</i> , <i>Koch.</i>
<i>gracilis</i> , <i>Kuts.</i>	<i>luridipennis</i> , <i>Kuts.</i>
	<i>cupreus</i> , <i>Koch.</i>
	<i>instabilis</i> , <i>Foud.</i>
Psylliodes , <i>Latr.</i>	<i>attenuatus</i> , <i>Koch.</i>
<i>dulcamarae</i> , <i>Koch.</i>	<i>marcidus</i> , <i>Ill.</i>
<i>chalcomerus</i> , <i>Ill.</i>	<i>affinis</i> , <i>Pk.</i>
<i>hyoscyami</i> , <i>L.</i>	<i>exoleta</i> , <i>Ill.</i>
<i>Anglicus</i> , <i>F.</i>	<i>picinus</i> , <i>Msh.</i>
<i>v. nigricollis</i> , <i>Msh.</i>	<i>luteolus</i> , <i>Müll.</i>

CHYSOMELIDÆ.

Prosternum covering the mesosternum.....	<i>Lamprosoma</i> .
Prosternum not covering the mesosternum.	
Anterior cotyloid cavities closed	<i>Timarcha</i> .
Anterior cotyloid cavities open.	
Anterior coxae globose or transverse.	
Mesosternum very short.	
Antennæ filiform or subfiliform.	
Claws simple.	
Antennæ not extending beyond the prothorax	<i>Lina</i> .
Antennæ extending beyond the prothorax	<i>Chrysomela</i> .
Claws toothed at the base.	
Tibiae subtriangular, toothed towards the apex	<i>Gonioctena</i> .
Tibiae of the normal form, not toothed. <i>Phratora</i> .	
Antennæ subclavate.	
Epipleura concave.....	<i>Plagiodesma</i> .
Epipleura not concave	<i>Phædon</i> .
Mesosternum of normal length	<i>Prasocuris</i> .
Anterior coxae conical, approximate	<i>Gastrophysa</i> .
Prasocuris , <i>Latr.</i>	<i>beccabungæ</i> , <i>Ill.</i>
<i>Helodes</i> , <i>Pk.</i>	<i>violacea</i> , <i>F.</i>
<i>aucta</i> , <i>F.</i>	Phratora , <i>Redt.</i>
<i>marginella</i> , <i>L.</i>	<i>vitellinæ</i> , <i>L.</i>
<i>Hannoverana</i> , <i>F.</i>	<i>vulgatissima</i> , <i>L.</i>
<i>phellandrii</i> , <i>L.</i>	<i>cavifrons</i> , <i>Th.</i>

Phædon, Latr.

- tumidulus, *Germ.*
betulæ, *L.*
concinnus, *Steph.*
cochleariae, *F.*

Plagiодера, Redt.

- armoraciae.

Gastrophysa, Redt.

- Gastroidea, *Hope.*
polygoni, *L.*
raphani, *F.*

Gonioctena, Reds.

- rufipes, *De G.*
viminalis, *L.*
affinis, *Suff.*
litura, *F.*
pallida, *L.*

Lina, Redt.

- Melasoma, *Steph.*
ænea, *F.*
populi, *L.*

- tremulae, *F.*
longicollis, *Suff.*

Chrysomela, L.

- Banksii, *F.*
staphylæa, *F.*
varians, *Schl.*
hæmoptera, *L.*
sanguinolenta, *L.*
distinguenda, *Steph.*
marginata, *L.*
menthastræ, *Suff.*
graminis, *L.*
fastuosa, *L.*
cerealis, *L.*
polita, *L.*
lamina, *F.*
didymata, *Scr.*
geminata, *Steph.*

Timarcha, Latr.

- lævigata, *L.*
coriaria, *Laich.*

Lamprosoma, Kirby.

- Oomorphus, *Curt.*
concolor, *Stm.*

CRYPTOCEPHALIDÆ.

- Elytra covering the pygidium..... *Clytra.*
Elytra not covering the pygidium *Cryptocephalus.*

Clytra, Laich.

- [*Melolontha, Geoff.*]
tridentata, *L.*
4-punctata, *L.*
læviuscula, *Ratze.*

- coryli, *L.*

- 6-punctatus, *L.*
aureolus, *Suff.*
hypochæridis, *L.*
ochrostoma, *Hld.*
nitidulus, *Gyll.*

- moræi, *L.*
10-punctatus, *L.*
punctiger, *Pk.*
fulcratus, *Germ.*

Cryptocephalus, Geoff.

- primarius, *Hld.*
imperialis, *F.*

<i>flavilabris</i> , <i>F.</i>	<i>labiatus</i> , <i>L.</i>
<i>lineola</i> , <i>F.</i>	<i>exiguus</i> , <i>Schr.</i>
<i>v. bipustulatus</i> , <i>F.</i>	<i>Wasastjernæ</i> , <i>Gyll.</i>
<i>bilineatus</i> , <i>L.</i>	<i>quercti</i> , <i>Suff.</i>
<i>minutus</i> , <i>F.</i>	<i>frontalis</i> , <i>Msh.</i>
<i>pusillus</i> , <i>F.</i>	

CRIOCERIDÆ.

Antennæ approximate at the base.

Tarsi dilated	<i>Donacia</i> .
Tarsi filiform	<i>Hæmonia</i> .

Antennæ not approximate.

Claws bifid	<i>Orsodacna</i> .
Claws simple.	
Claws united at the base	<i>Lema</i> .
Claws not united.	
Prothorax angulated at the sides.....	<i>Zeugophora</i> .
Prothorax rounded at the sides	<i>Crioceris</i> .

Crioceris, *Geoff.*

<i>merdigera</i> , <i>L.</i>	<i>crassipes</i> , <i>F.</i>
<i>12-punctata</i> , <i>L.</i>	<i>bidens</i> , <i>Ol.</i>
<i>asparagi</i> , <i>L.</i>	<i>dentata</i> , <i>Hope.</i>

Lema, *F.*

<i>cyanella</i> , <i>L.</i>	<i>aquatica</i> , <i>L.</i>
<i>puncticollis</i> , <i>Curt.</i>	<i>lemnæ</i> , <i>F.</i>
<i>lichenis</i> , <i>Voet.</i>	<i>sagittariae</i> , <i>F.</i>
<i>cyanella</i> , <i>F.</i>	<i>obscura</i> , <i>Gyll.</i>
<i>Erichsoni</i> , <i>Suff.</i>	<i>thalassina</i> , <i>Germ.</i>
<i>melanopa</i> , <i>L.</i>	<i>impressa</i> , <i>Pk.</i>

Zeugophora, *Kze.*

<i>subspinosa</i> , <i>F.</i>	<i>discolor</i> , <i>Pz.</i>
<i>flavicollis</i> , <i>Msh.</i>	<i>comari</i> , <i>Suff.</i>
<i>Turneri</i> , <i>Pow.</i>	<i>Proteus</i> , <i>Kze.</i>

Hæmonia, *Latr.*

<i>Macroplæa</i> , <i>Loch.</i>

equiseti, *F.*

<i>appendiculata</i> , <i>Pz.</i>

ruppiiæ, *Germ.*

<i>v. Curtissii</i> , <i>Lac.</i>

Donacia, *F.*

<i>crassipes</i> , <i>F.</i>	<i>nigra</i> , <i>F.</i>
<i>bidens</i> , <i>Ol.</i>	<i>affinis</i> , <i>Kze.</i>
<i>dentata</i> , <i>Hope.</i>	<i>v. rustica</i> , <i>Kze.</i>
<i>sparganii</i> , <i>Ahr.</i>	<i>semicuprea</i> , <i>Pz.</i>
<i>dentipes</i> , <i>F.</i>	<i>simplex</i> , <i>F.</i>
<i>aquatica</i> , <i>L.</i>	<i>menyanthidis</i> , <i>F.</i>
<i>lemnæ</i> , <i>F.</i>	<i>linearis</i> , <i>Hpe.</i>
<i>sagittariae</i> , <i>F.</i>	<i>simplex</i> , <i>F.</i>
<i>obscura</i> , <i>Gyll.</i>	<i>typhæ</i> , <i>Bhm.</i>
<i>thalassina</i> , <i>Germ.</i>	
<i>impressa</i> , <i>Pk.</i>	<i>hydrocharidis</i> , <i>F.</i>
<i>sericea</i> , <i>L.</i>	
<i>discolor</i> , <i>Pz.</i>	
<i>comari</i> , <i>Suff.</i>	
<i>Proteus</i> , <i>Kze.</i>	

Orsodacna, Latr.
cerasi, F.

nigriceps, *Latr.*
v. humeralis, Latr.

CERAMBYCIDÆ.

Eyes finely granulate.

Anterior coxae cylindrical.

Elytra very short *Molorchus.*

Elytra of normal length.

Eyes nearly entire.

Anterior coxae exserted.

Antennæ distant from the eyes.

Prothorax tuberculate at the sides... *Toxotus.*

Prothorax not tuberculate *Pachyta.*

Antennæ inserted near the eyes.

Anterior cetylloid cavities closed.

Posterior angles of the prothorax

spiniform *Strangalia.*

Posterior angles not spiniform ... *Leptura.*

Anterior cetylloid cavities open *Grammoptera.*

Anterior coxae not exserted *Rhagium.*

Eyes deeply emarginate.

Femora pedunculate.

Anterior coxae contiguous *Callidium.*

Anterior coxae not contiguous *Hylotrypes.*

Femora not pedunculate *Asemum.*

Anterior coxae globose.

Anterior cetylloid cavities open *Clytus.*

Anterior cetylloid cavities closed *Aromia.*

Eyes coarsely granulate.

Basal segment of the abdomen very large *Obrium.*

Basal segment of normal size *Gracilia.*

Grammoptera, Serv.

lævis, F.

analis, Pe.

præusta, F.

sanguinolenta, L.

scutellata, F.

rufa, Br.

virens, L.

Leptura, L.

Anoplodera, p., Muls.

livida, F.

6-guttata, F.

fulva, De G.

Strangalia, Serv.

melanura, L.

nigra, L.

attenuata, L.

revestita, L.

armata, Hbst.

4-fasciata, <i>L.</i>	Hylotrypes , <i>Serv.</i>
aurulenta, <i>F.</i>	bajulus, <i>L.</i>
Pachyta , <i>Serv.</i>	
cerambyciformis, <i>Schrk.</i>	Asemum , <i>Esch.</i>
8-maculata, <i>F.</i>	striatum, <i>L.</i>
sexmaculata, <i>L.</i>	
collaris, <i>L.</i>	Clytus , <i>F.</i>
Toxotus , <i>Serv.</i>	Anaglyptus, p., <i>Muls.</i>
[<i>Stenocorus</i> , <i>Geoff.</i>]	arcuatus, <i>L.</i>
meridianus, <i>L.</i>	arietis, <i>L.</i>
Rhagium , <i>F.</i>	gazella, <i>F.</i>
<i>Stenocorus</i> , p., <i>Geoff.</i>	mysticus, <i>L.</i>
inquisitor, <i>L.</i>	
indagator, <i>F.</i>	Obrium , <i>Latr.</i>
bifasciatum, <i>F.</i>	cantharinum, <i>L.</i>
Aromia , <i>Serv.</i>	Gracilia , <i>Serv.</i>
moschata, <i>L.</i>	pygmæa, <i>F.</i>
Callidium , <i>F.</i>	minuta, <i>F.</i>
violaceum, <i>L.</i>	Molorchus , <i>F.</i>
sanguineum, <i>L.</i>	Necydalis, <i>L.</i>
alni, <i>L.</i>	minor, <i>L.</i>
variabile, <i>L.</i>	umbellatarum, <i>L.</i>

LAMIIDÆ.

Claws simple.

Scape with a terminal cicatrix.

Femora clavate *Merosa*.

Femora sublinear.

Metasternum very short *Lamia*.Metasternum of normal length *Monochamus*.

Scape without a cicatrix.

Antennæ 11-jointed.

Prothorax spined at the sides.

Antennæ glabrous.

Pygidium uncovered *Astynomus*.Pygidium covered *Liopus*.

Antennæ ciliated.....

Prothorax not spined at the sides

Pogonocherus.*Saperda*.

Antennæ 12-jointed

Agapanthia.

Claws bifid or appendiculate.

Eyes entire.

Elytra parallel at the sides.	
Elytra rounded at the apex	<i>Stenostola</i> .
Elytra truncate	<i>Oberea</i> .
Elytra narrowed posteriorly	<i>Phytæcia</i> .
Eyes divided	<i>Tetrops</i> .

Phytæcia, Muls.

cylindrica, L.
cinerea, De G.

Stenostola, Redt.

ferrea, Schrk.
nigripes, F.

Oberea, Muls.

oculata, L.

Tetrops, Steph.

Polyopsia, Muls.

præusta, L.

Saperda, F.

carcharias, L.
punctata, De G.
scalaris, L.
populnea, L.

Agapanthia.

lineatocollis, Don.
cardui, F.

Mesosa, Serv.

nebulosa, F.

Pogonochærus, Latr.

hispidus, L.
fasciculatus, De G.
pilosus, F.

Liopus, Serv.

nebulosus, L.

Astynomus, Steph.

Acanthocinus, Steph.
sædilis, L.

Monochamus, Serv.

sartor, F.
sutor, L.

PRIONIDÆ.

One genus only in Britain.

Prionus, Geoff.

coriarius, L.

SCOLYTIDÆ.

Third joint of the tarsi bilobed.

Tibiæ denticulate.

Head distinctly rostrate

Hylastes.

Head scarcely rostrate.	
Club ovate or subglobose.	
Funicle 6-jointed	<i>Hylurgus.</i>
Funicle 5-jointed	<i>Carpoborus.</i>
Club elongate.	
Funicle 5-jointed	<i>Phlaeophthorus.</i>
Funicle 7-jointed	<i>Hylesinus.</i>
Tibiae not denticulate	<i>Scolytus.</i>
Third joint of the tarsi not bilobed.	
Tarsi shorter than the tibiae.	
Funicle 3-jointed	<i>Hypothenemus.</i>
Funicle 4-jointed	<i>Cryphalus.</i>
Funicle 5-jointed.	
Eyes divided	<i>Trypodendron.</i>
Eyes undivided.	
Anterior tibiae stouter towards the apex, denticulate	<i>Tomicus.</i>
Anterior tibiae sublinear, scarcely denti- culate	<i>Pityophthorus.</i>
All the tibiae dilated or subtriangular, denticulate.	
Eyes emarginate	<i>Xyleborus.</i>
Eyes entire	<i>Dryocætus.</i>
Tarsi longer than the tibiae	<i>Platypus.</i>

Hylastes, Er.

ater, *Er.*
cunicularius, Pk.
angustatus, Rate.
opacus, Er.
palliatus, Gyll.
obscurus, Msh.

Hylurgus, Latr.
Blastophagus, p., Eich.
piniperda, L.
minor, Hart.

Carpoborus, Eich.
pilosus, Rate.

Phlaeophthorus, Woll.
rhododactylus, Msh

Hylesinus, F.

crenatus, F.
oleiperda, F.
fraxini, F.
vittatus, F.

Scolytus, Geoff.
Eccoptogaster, Host.
destructor, Ol.
Ratzeburgi, Jans.
pruni, Ratz.
intricatus, Ratz.
rugulosus, Ratz.
multistriatus, Msh.

Cryphalus, Er.
tiliae, F.
piceæ, Ratz.

abietis, *Ratz.*

fagi, *F.*

granulatus, *Ratz.*

binodulus, *Ratz.*

alni, *Lind.*

typographus, *L.*

acuminatus, *Gyll.*

Iaricia, *F.*

suturalis, *Gyll.*

nigeritus, *Gyll.*, ♀.

chalcographus, *L.*

bidens, *F.*

bispinus, *Duft.*

Hypothenemus, *Westw.*

eruditus, *Westw.*

Trypodendron, *Steph.*

Xyloterus, *Er.*

domesticum, *L.*

signatum, *F.*

lineatum, *Olk.*

Dryocætus, *Eich.*

autographus, *Ratz.*

villosus, *F.*

coryli, *Per.*

Pityophthorus, *Eich.*

micrographus, *L.*

bicolor, *Hbst.*

Tomicus, *Latr.*

[*Ips*, *De G.*]

Xylocleptes, *Ferr.*

stenographus, *Duft.*

Xyleborus, *Eich.*

dispar, *F.*

dryographus, *Ratz.*

Saxesseni, *Ratz.*

Platypus, *Hbst.*

cylindricus, *F.*

BRUCHIDÆ.

Only one British genus.

Bruchus, *L.*

[*Mylabris*, *Geoff.*]

pectinicornis, *L.*

cisti, *F.*

canus, *Germ.*

pisi, *L.*

rufimanus, *Boh.*

affinis, *Fröh.*

seminarius, *L.*

luteicornis, *Ill.*

nubilus, *Boh.*

viciae, *Olk.*

loti, *Pk.*

lathyri, *Steph.*

lentis, *Boh.*

villosus, *F.*

cisti, *Pk.*

ater, *Msh.*

ANTHRIEIDÆ.

Antennæ inserted on the sides of the rostrum.

With a scutellum.

Carina of the prothorax contiguous to the base.

Scrobes sulciform, transverse..... *Brachytarsus*.

Scrobes foveiform	<i>Anthribus.</i>
Carina of the prothorax not contiguous to the base..	
Prothorax rounded at the sides.....	<i>Tropidères.</i>
Prothorax tuberculate	<i>Platyrhinus.</i>
Without a scutellum	<i>Urodon.</i>
Antennæ inserted in front near the eyes	<i>Choragus.</i>
 <i>Urodon, Schön.</i>	<i>Anthribus, auct.</i>
<i>rufipes, Ol.</i>	[<i>Macrocephalus, Ol.</i>]
	<i>albinus, L.</i>
 <i>Choragus, Kby.</i>	<i>Tropidères, Schön.</i>
<i>Sheppardi, Kby.</i>	<i>albirostris, Hbet.</i>
 Brachytarsus, Schön.	<i>sepicola, F.</i>
[<i>Anthribus, Geoff.</i>]	<i>niveirostris, F.</i>
 <i>scabrosus, F.</i>	<i>Platyrhinus, Clairv.</i>
<i>varius, F.</i>	<i>latirostris, F.</i>

CURCULIONIDÆ.

Mentum more or less covering the maxillæ
(*Adelognatha*).

Prothorax without ocular lobes.

Scrobes linear, directed beneath the rostrum
(*Brachyderinæ*).

Prothorax ciliated..... *Tanymecous.*

Prothorax not ciliated.

Corbels of posterior tibiae open.

Elytra not broader at the base than the
prothorax.

Scrobes normal.

Eyes conical and salient

Strophosomus.

Eyes not conical nor salient.

Rostrum about as broad as the head.

Second joint of the funicle shorter
than the first.....

Platytaurus.

Second joint of the funicle as long as
the first

Sciophilus.

Rostrum narrower than the head.....

Eusomus.

Scrobes foveiform

Barypithes.

Elytra broader than the prothorax.

Claws free

Sitona.

- Claws united at the base.
 - Scrobes confluent beneath the rostrum. *Polydrosus*.
 - Scrobes not confluent *Metallites*.
- Corbels of posterior tibiae cavernous.
 - Rostrum with the sides parallel *Cneorhinus*.
 - Rostrum broader towards the apex.
 - Claws free *Barynotus*.
 - Claws united at the base *Liophlaeus*.
- Scrobes linear, directed towards the eye (*Otiorhynchinæ*).
 - Metasternum very short.
 - Claws free.
 - Antennæ slender *Otiorhynchus*.
 - Antennæ robust.
 - Prothorax cylindrical *Cathormiocerus*.
 - Prothorax not cylindrical *Trachyphlaeus*.
 - Claws united at the base.
 - Scrobes lateral *Omias*.
 - Scrobes dorsal.
 - Eyes situated on the head *Peritelus*.
 - Eyes situated on the rostrum *Cænopsis*.
 - Metasternum elongate *Phyllobius*.
 - Prothorax with ocular lobes (*Leptopinæ*) *Tropiphorus*.

Mentum not covering the maxillæ (Phanerognatha).

 - Anterior coxæ contiguous (Symmera).
 - Pygidium covered by the elytra.
 - Metasternum very short.
 - Tibiæ unguiculate (*Molytinae*).
 - Anterior coxae exserted.
 - Spurs of the tibiæ distinct *Molytes*.
 - Spurs of the tibiæ rudimentary *Liosoma*.
 - Anterior coxae not exserted *Plinthus*.
 - Tibiæ not unguiculate.
 - Propectus canaliculate (*Byrsopinæ*) *Gronops*.
 - Propectus not canaliculate (*Rhyparosomæ*) *Orthochætes*.
 - Metasternum of normal length.
 - Antennæ geniculate.
 - Claws united at the base (*Cleoninae*).
 - Scrobes terminal.
 - Rostrum as long as the head *Cleonus*.

- Rostrum shorter than the head *Rhinocyllus*.
- Scrobes not terminal.
- Body ovate *Larinus*.
- Body cylindrical *Lixus*.
- Claws not united at the base.
- Rostrum shorter than the prothorax
(Hyperinae).
- Funicle 7-jointed.
- Rostrum incrassate towards the apex... *Alophus*.
- Rostrum cylindrical *Hypera*.
- Funicle 5-jointed *Limobius*.
- Rostrum longer than the prothorax.
- Rostrum slender (*Erirhininae*).
- Tarsi dilated.
- Claw-joint normal.
- Scrobes terminal *Procas*.
- Scrobes not terminal.
- Funicle 7-jointed.
- Tibiae slender, longer than the tarsi.
- Femora toothed *Dorytomus*.
- Femora not toothed.
- Anterior tibiae straight *Grypidius*.
- Anterior tibiae curved *Erirhinus*.
- Tibiae stout, not longer than the tarsi *Brachonyx*.
- Funicle 5-jointed *Mecinus*.
- Claw-joint very small or absent.
- Funicle 6-jointed *Tanysphyrus*.
- Funicle 7-jointed.
- Claw-joint very small *Smicronyx*.
- Claw-joint absent *Anoplus*.
- Tarsi filiform.
- Funicle with the first joint longer than the second *Hydronomus*.
- Funicle with the first joint shorter than the second *Bagous*.
- Rostrum moderately robust (*Hylobiinae*).
- Anterior coxae contiguous.
- Rostrum grooved at the sides *Hylobius*.
- Rostrum not grooved at the sides ... *Lepyrus*.
- Anterior coxae not contiguous *Pissodes*.
- Antennæ straight (*Apioninae*) *Apion*.

Pygidium not covered by the elytra.

Antennæ straight.

Claws united at the base (*Attelabinae*).

Head narrowed behind into a neck..... *Apoderus*.

Head not narrowed behind *Attelabus*.

Claws free (*Rhynchitinae*).

Claws bifid or appendiculate *Rhynchites*.

Claws simple *Rhinomacra*.

Antennæ geniculate.

Intermediate segments of the abdomen
angulated at the sides.

Funicle 6- or 7-jointed (*Tychiinae*).

Second abdominal segment embracing
the third.

Funicle 7-jointed *Tychius*.

Funicle 6-jointed *Sibinia*.

Second abdominal segment not embrac-
ing the third *Elleschus*.

Funicle 5-jointed (*Cioninae*).

Intercoxal process broad, truncate *Cionus*.

Intercoxal process triangular *Nanophyes*.

Intermediate segments of the abdomen not
angulated.

Posterior angles of the prothorax acute
(*Magdalinae*) *Magdalia*.

Posterior angles of the prothorax rectan-
gular.

Propectus elongate (*Balaninae*) *Balaninus*.

Propectus very short (*Anthonominae*).

Posterior femora thick; saltatorial.

Funicle 6-jointed *Orcheses*.

Funicle 7-jointed *Tachyerges*.

Posterior femora normal; not saltato-
rial.

Claws appendiculate *Anthonomus*.

Claws simple *Acalyptus*.

**Anterior coxæ not contiguous (Apostasi-
mera).**

Penultimate joint of the tarsi bilobed.

Mesothoracic epimera ascending.

Scutellum none, or rudimentary (*Ceutho-
rhynchinae*).

Head retracted.

Tarsi with one claw only *Mononychus*.

- Tarsi with two claws.
- Pectoral canal limited by the meso-sternum *Cæliodes*.
 - Pectoral canal limited to between the anterior coxae.
 - Body short, thick.
 - Elytra semiglobose *Rhytidosoma*.
 - Elytra ovate *Ceuthorhynchus*.
 - Body oblong.
 - Claws simple *Poophagus*.
 - Claws toothed at the base *Tapinotus*. - Head not retracted.
 - Penultimate joint of the tarsi bilobed.
 - Funicle 7-jointed.
 - Proctetus canaliculate* *Rhinoncus*.
 - Proctetus nearly entire* *Phytobius*.
 - Funicle 6-jointed.
 - Tarsi distinctly bilobed *Amalus*.
 - Tarsi feebly bilobed *Litodactylus*.
 - Penultimate joint of the tarsi not bilobed. *Eubrychius*. - Scutellum distinct (*Baridinae*) *Baris*.
 - Mesothoracic epiphysis not ascending.
 - Pectoral canal none, or limited by the anterior coxae.
 - Antennæ geniculate.
 - Funicle 5-jointed (*Gymnetrinae*).
 - Claws united at the base *Gymnetron*.
 - Claws free *Miarus*. - Antennæ straight.
 - Pectoral canal extending to between or beyond the anterior coxae (*Cryptorhynchinae*).
 - Proctetus* none *Orobitis*.
 - Proctetus* present.
 - With a scutellum *Cryptorhynhus*.
 - Without a scutellum *Acalles*. - Penultimate joint of the tarsi not bilobed.
 - Pygidium uncovered (*Calandrinae*) *Calandra*.
 - Pygidium covered (*Cossoninae*).
 - Funicle 5-jointed *Pentarthrum*.
 - Funicle 7-jointed.
 - First two joints of the funicle of equal length.
 - Anterior coxae approximate *Phlaeophagus*.

- Anterior coxae not approximate.
 Antennæ median or antemedian in both
 sexes *Cossonus*.
 Antennæ antemedian ♂, basal ♀ *Mesites*.
 First joint of the funicle as long as the
 two next together *Rhyncolus*.

Rhyncolus, Crtz.

- lignarius, Msh.*
cylindrirostris, Ol.
chloropus, F.
 ? *ater, L.*
gracilis, Rosen.
truncorum, Germ.

Phloeophagus, Schön.

- seneopiceus, Boh.*
spadix, Hbst.

Mesites, Schön.**Tardyi, Curt.****Cossonus, Clair.**
*linearis, F.***Pentarthrum, Woll.***Huttoni, Woll.***Calandra, Clair.**
*Sitophilus, Schön.**granaria, L.*
*oryzae, L.***Baris, Germ.**
Baridius, Schön.
picicornis, Msh.
 abrotani, Germ.
chlorizans, Germ.
scolopacea, Germ.
analis, Ol.
lepidii, Germ.
laticollis, Msh.
*T-album, L.***Tapinotus, Schön.***sellatus, F.***Poophagus, Schön.**
sisymbrii, F.
*nasturtii, Germ.***Ceuthorhynchus, Germ.**
Ceuthorhynchidius, p., Duv.

- horridus, Pz.*
troglodytes, F.
frontalis, Bris.
terminatus, Hbst.
nigrinus, Msh.
melanarius, Steph.
Crotchii, Bris.
hepaticus, Gyll.
floralis, Pk.
 monostigma, Steph.
pyrrhorhynchus, Msh.
 pulvinatus, Gyll.
minimus, Rye.
pumilio, Gyll.
 Poweri, Rye.
quercicola, Pk.
Dawsoni, Bris.
suturalis, F.
inaffectatus, Gyll.
syrites, Germ.
assimilis, Pk.
erysimi, F.
contractus, Msh.
 hirtulus, Germ.
setosus, Boh.
cochleariae, Gyll.
constrictus, Msh.
ericæ, Gyll.

- echii, F.*
viduatus, Gyll.
litura, F.
ovalis, Msh.
trimaculatus, F.
asperifoliarum, Gyll.
urticæ, Boh.
campestris, Gyll.
moltor, Gyll.
triangulum, Boh.
chrysanthemi, Gyll.
rugulosus, Hbst.
arquatus, Hbst.
melanostictus, Msh.
euphorbiæ, Bris.
quadridens, Pz.
reedæ, Msh.
marginatus, Pk.
punctiger, Gyll.
distinctus, Bris.
rotundatus, Bris.
pilosellus, Gyll.
verrucatus, Gyll.
pollinarius, Först.
angulosus, Boh.
picitarsis, Gyll.
pleurostigma, Msh.
alliarœ, Bris.
inornatus, Wat.
cyanipennis, Germ.
sulcicollis, Gyll.
chalybaeus, Germ.
suturellus, Gyll.
- Rhytidosoma, Steph.**
Rhytidosomus, Schön.
globulus, Hbst.
- Coeliodes.**
quercus, F.
ruber, Msh.
rubicundus, Pk.
subrufus, Hbst.
fuliginosus, Msh.
- 4-maculatus, L.*
didymus, F.
geranii, Pz.
exiguus, Ol.
- Mononychus, Germ.**
pseudacori, F.
- Rhinoncus, Schön.**
castor, F.
bruchoides, Hbst.
inconspicetus, Hbst.
crassus, Msh.
pericarpius, L.
subfasciatus, Gyll.
tibialis, Steph.
denticollis, Gyll.
- Amalus, Schön.**
scortillum, Hbst.
- Phytobius, Schön.**
Waltoni, Boh.
? v. notula, Germ.
canaliculatus, Fhr.
4-nodosus, Gyll.
4-tuberculatus, F.
comari, Hbst.
quadricornis, Gyll.
- Litodactylus, Redt.**
leucogaster, Msh.
- Eubrychius, Th.**
Phytobius, p., Schön.
velatus, Beck.
- Orobitis, Germ.**
cyaneus, L.
- Acalles, Schön.**
ruboris, Curt.
abstersus, Boh.

turbatus, *Boh.*
misellus, *Boh.*
ptinoides, *Gyll.*
ptinoides, *Msh.*

Cryptorhynchus, Ill.

lapathi, *L.*

Gymnetron, Schön.
Rhinusa, *Steph.*

pascuorum, *Gyll.*
vilosulum, *Gyll.*
beccabungei, *L.*
labile, *Hbst.*
tricolor, *Msh.*
rostellum, *Hbst.*
melanarium, *Germ.*
spilotum, *Germ.*
collinum, *Gyll.*
linariae, *Pz.*
noctis, *Hbst.*
antirrhini, *Msh.*

Miarus, Steph.
Cleopus, *Suff.*

graminis, *Gyll.*
campanulæ, *L.*
micros, *Germ.*
plantarum, *Germ.*

Rhamphus, Clair.
flavicornia, *Clair.*

Orchestes, Ill.

quercus, *L.*
scutellaris, *F.*
ferrugineus, *Msh.*
alni, *L.*
ilicis, *F.*
sparsus, *Fhr.*
fagi, *L.*
pratensis, *Germ.*
Waltoni, *Curt.*

loniceræ, *Hbst.*
rusci, *Hbst.*
avellanae, *Don.*

Tachyerges, Schön.

salicis, *L.*
bifasciatus, *F.*
stigma, *Germ.*
saliceti, *F.*

Acalyptus, Schön.

Carpini, *Hbst.*

Anthonomus, Germ.

rubi, *Hbst.*
ater, *Msh.*
varians, *Pk.*
Britannus, *Desh.*
pubescens, *Walt.*
ulmi, *De G.*
conspersus, *Desh.*
pedicularius, *L.*
pomorum, *L.*
comari, *Crotch.*

Balaninus, Germ.

Balanobius, p., *Jek.*
glandium, *Msh.*
venosus, *Gyll.*
nucum, *L.*
tessellatus, *Fourc.*
turbatus, *Gyll.*
elephas, *Steph.*
vilosus, *F.*
cerasorum, *Hbst.*
rubidus, *Gyll.*
betulae, *Steph.*
brassice, *Msh.*
pyrrhoceras, *Msh.*

Magdalisa, Germ.

Magdalinus, *Schön.*
Panus, p., *Steph.*
phlegmatica, *Hbst.*

duplicata, *Germ.*
violacea, *L.*
cerasi, *L.*
carbonaria, *L.*
atramentaria, *Germ.*
pruni, *L.*
barbicornis, *Latr.*

Cionus, *Clair.*
scrophulariae, *L.*
verbasci, *F.*
thapsus, *F.*
hortulanus, *Msh.*
olens, *F.*
blattariae, *F.*
bipustulatus, *Msh.*
pulchellus, *Hbst.*

Nanophyes, *Schön.*
Sphaerula, *Steph.*

lythri, *F.*
gracilis, *Redt.*
Sibinia, *Germ.*
Sibynes, *Schön.*
sodalis, *Germ.*
primita, *Hbst.*
arenariae, *Steph.*
cana, *Hbst.*
potentillae, *Germ.*
viscariae, *Steph.*

Elleschus, *Steph.*
bipunctatus, *L.*
scanicus, *Pk.*

Tychius, *Schön.*
5-punctatus, *L.*
polylineatus, *Germ.*
Schneideri, *Hbst.*
lineatulus, *Steph.*
flavicollis, *Steph.*
Kirbyi, *Wat.*

venustus, *F.*
curtus, *Bris.*
meliloti, *Steph.*
junceus, *Reich.*
canescens, *Msh.*
tibialis, *Boh.*
nigrirostris, *Wat.*
tomentosus, *Hbst.*
pusillus, *Germ.*
brevicornis, *Wat.*
haematocephalus, *Gyll.*
picrostris, *F.*

Rhinomacer, *F.*
attelaboides, *F.*

Rhynchites, *Hbst.*
[*Rhinomacer*, *Geoff.*]
Deporaus, *Steph.*

betuleti, *F.*
populi, *L.*
auratus, *Soop.*
Bacchus, *L.*
auratus, *Steph.*
sequatus, *L.*
alliariae, *F.*
interpunctatus, *Steph.*
conicus, *Ill.*
Germanicus, *Hbst.*
aneovirens, *Msh.*
pauxillus, *Germ.*
atro-caeruleus, *Steph.*
nanus, *Pk.*
cupreus, *L.*
megacephalus, *Germ.*
uncinatus, *Th.*
ophthalmicus, *Steph.*
pubescens, *F.*
betulæ, *L.*

Attelabus, *L.*
curculionoides, *L.*

- Apoderus, Ol.**
coryli, L.
- Apion, Hbst.**
Oxystoma, p., Dum.
pomona, F.
opeticum, Wenck.
scrobicolle, Gyll.
craccae, L.
cerdo, Gerst.
subulatum, Kby.
carduorum, Kby.
onopordi, Kby.
brunnipes, Boh.
leavigatum, Kby.
confluens, Kby.
stolidum, Gyll.
vicinum, Kby.
atomarium, Kby.
flavimanum, Gyll.
Hookeri, Kby.
ulicis, Forst.
ilicis, Kby.
fuscirostre, F.
genistae, Kby.
semivittatum, Gyll.
Germani, Walt.
pallipes, Kby.
vernale, Pk.
seneum, F.
radiolus, Kby.
astragali, Pk.
striatum, Msh.
immune, Kby.
pubescens, Kby.
Curtisi, Curt.
simile, Kby.
seniculus, Kby.
rufirostre, F.
viciæ, Pk.
obscurum, Msh.
diforme, Germ.
dissimile, Germ.
lævicolle, Kby.
- Schönherri, Boh.**
varipes, Germ.
ononidis, Gyll.
apricans, Hbst.
fagi, Kby.
assimile, Kby.
Ryei, Blackburn.
trifolii, L.
nigritarse, Kby.
ebeninum, Kby.
flavipes, F.
tenue, Kby.
punctigerum, Pk.
virens, Hbst.
- ♂ marchicum, Kby.*
platalea, Germ.
atrum, Gyll.
Gyllenhalii, Kby.
ervi, Kby.
ononis, Kby.
filirostre, Kby.
minimum, Hbst.
velox, Kby.
pisi, F.
punctifrons, Kby.
aethiops, Hbst.
marchicum, Gyll.
leavigatum, Pk.
sorbi, Hbst.
scutellare, Kby.
meliloti, Kby.
loti, Kby.
Spencei, Kby.
vorax, Hbst.
livescerum, Gyll.
Waltoni, Steph.
miniatum, Germ.
frumentarium, L.
hematodes, Kby.
cruentatum, Walt.
rubens, Steph.
sanguineum, De G.
malvae, F.
limonii, Kby.

- sedi, Germ.*
violaceum, Kby.
cyaneum, Ol.
hydrolapathi, Msh.
aterrimum, L.
marchicum, Hbst.
violaceum, Gyll.
spartii, Kby.
affine, Kby.
humile, Germ.
plebeium, Steph.
- Brachonyx, Schön.**
indigena, Hbst.
- Anoplus, Schön.**
plantaris, Naezen.
- Smicronyx, Schön.**
jungermanniae, Reich.
cicur, Gyll.
pygmæus, Curt.
- Tanysphyrus, Schön.**
lemnæ, F.
- Bagous, Schön.**
Lyprus, p., Schön.
binodus, Hbst.
nodulosus, Gyll.
subcarinatus, Gyll.
frit, Hbst.
lutulosus, Gyll.
diglyptus, Boh.
tempesturis, Hbst.
lutulentus, Gyll.
limosus, Gyll.
lutosus, Gyll.
inceratus, Gyll.
cylindrus, Pk.
- Hydronomus, Schön.**
alismatis, Msh.
- Mecinus, Germ.**
pyraster, Hbst.
collaris, Germ.
circulatus, Msh.
- Dorytomus, Steph.**
vorax, F.
v. ventralis, Steph.
tremulæ, Pk.
costirostris, Gyll.
maculatus, Msh.
Silbermanni, Wenck.
affinis, Pk.
validirostris, Gyll.
Waltoni, Boh.
tæniatus, F.
salicis, Walt.
salicinus, Gyll.
agnathus, Boh.
maialis, Ph.
pectoralis, Pz.
tortrix, L.
- Erihinus, Sch.**
Notaris, p., Steph.
Erycus, p., Tourn.
scirpi, F.
acridulus, L.
æthiops, F.
bimaculatus, F.
festucæ, Hbst.
nereis, Pk.
scirrhosus, Gyll.
pillumus, Gyll.
- Grypidius, Schön.**
equiseti, F.
- Procas, Steph.**
picipes, Msh.
- Pissodes, Germ.**
pini, L.

- Hylobius**, *Schön.*
abietis, *L.*
- Lepyrus**, *Germ.*
binotatus, *F.*
- Lixus**, *F.*
paraplecticus, *L.*
turbatus, *Gyll.*
algirus, *L.*
angustatus, *F.*
bicolor, *Ol.*
filiformis, *F.*
- Larinus**, *Germ.*
carlinæ, *Ol.*
- Rhinocyllus**, *Germ.*
latirostris, *Latr.*
- Cleonus**, *Schön.*
[*Curculio*, *F.*]
nebulosus, *L.*
sulcirostris, *L.*
glaucus, *F.*
albidus, *F.*
- Limobius**, *Schön.*
dissimilis, *Hbst.*
mixtus, *Boh.*
- Hypera**, *Germ.*
Phytonomus, *Schön.*
punctata, *F.*
fasciculata, *Hbst.*
alternans, *Steph.*
polygoni, *F.*
murina, *F.*
variabilis, *Hbst.*
plantaginis, *De G.*
trilineata, *Msh.*
arundinis, *Pk.*
Pollux, *F.*
- ruminis*, *L.*
meles, *F.*
tigrina, *Boh.*
elongata, *Pk.*
suspiciosa, *Hbst.*
nigrirostris, *F.*
rufipes, *Steph.*
- Alophus**, *Schön.*
triguttatus, *F.*
- Plinthus**, *Germ.*
caliginosus, *F.*
- Liosoma**, *Steph.*
ovatum, *Clair.*
troglodytes, *Rye.*
oblongulum, *Boh.*
- Molytes**, *Schön.*
Liparus, *Ol.*
coronatus, *Goeze.*
Germanus, *L.*
- Orthocastes**, *Germ.*
setiger, *Germ.*
- Gronops**, *Schön.*
lunata, *F.*
- Tropiphorus**, *Schön.*
mercurialis, *F.*
- Phyllobius**, *Schön.*
Nemoicus, p., *Steph.*
maculicollis, *Germ.*
calcaratus, *F.*
alneti, *F.*
argentatus, *L.*
pyri, *L.*
vespertinus, *F.*
uniformis, *Msh.*
pomonæ, *Ol.*
viridicollis, *F.*
oblongus, *L.*

Cathormiocerus, SchöN.

maritimus, *Rye.*
socius, *Boh.*

Trachyphloeus, Germ.

laticollis, *Boh.*
alternans, *Gyll.*
spinimanus, *Germ.*
scabriculus, *L.*
scaber, *L.*
aristatus, *Gyll.*
squamulatus, *Ol.*
myrmecophilus, *Seidl.*

Omias, SchöN.

mollinus, *Boh.*
Bohemani, *Zett.*

Peritelus, Germ.

griseus, *Ol.*

Cænopsis, Bach.

Cataphorticlus, *Duv.*
fissirostris, *Walt.*
Waltoni, *Boh.*

Otiorhynchus, Germ.

fuscipes, *Ol.*
v. erythropus, *Boh.*
tenebricosus, *Hbst.*
niger, *Msh.*
ebeninus, *Gyll.*
atroapterus, *De G.*
raucus, *F.*
scabrosus, *Msh.*
ligneus, *Ol.*
septentrionis, *Hbst.*
maurus, *Gyll.*
monticola, *Germ.*
picipes, *F.*
? *singularis*, *L.*
ligustici, *L.*
rugifrons, *Gyll.*

ambiguus, *SchöN.*

ovatus, *L.*
inuscorum, *Eris.*

Tanymecus, SchöN.

palliatius, *F.*

Polydrosus, Germ.

undatus, *F.*
planifrons, *Gyll.*
flavipes, *De G.*
pterygomalis, *Boh.*
cervinus, *L.*
v. melanotus, *Steph.*
chrysomela, *Ol.*
confluens, *Steph.*
chrysomela, *Gyll.*
sericeus, *Schal.*
micans, *F.*

Metallites, Germ.

marginatus, *Steph.*

Sitona, Germ.

Sitones, *SchöN.*

grisea, *F.*

flavescens, *Msh.*
longicollis, *Fahr.*
suturalis, *Steph.*
sulcifrons, *Thun.*
tibialis, *Hbst.*
brevicollis, *Sahl.*
lineellus, *Bonds.*
Waterhousei, *Walt.*
crinitus, *Ol.*
Cambricus, *Steph.*
cinerascens, *Fahr.*
Regensteinensis, *Hbst.*
puncticollis, *Steph.*
lineatus, *L.*
hispidulus, *F.*
meliloti, *Walt.*
humeralis, *Steph.*
ononidis, *Sharp.*

Barypithes, Dur.

pellucidus, *Boh.*
 brunnipes, *Ol.*
 piceus, Msh.
 sulcifrons, Boh.

Eusomus, Germ.

ovulum, *Ill.*

Sciaphilus, Schön.

muricatus, *F.*

Platyptarsus, Schön.

Brachysomus, *Schön.*

echinatus, *Bonsd.*

hirsutulus, F.

setulosus, *Boh.*

Strophosomus, Schön.

coryli, *F.*
 obesus, Msh.
 retusus, Msh.
 faher, Hbst.
 limbatus, F.

Barynotus, Germ.

obscurus, *F.*
 mærens, F.
 Schönherri, Zett.

Liophilceus, Germ.

nubilus, *F.*

Cneorhinus, Schön.

geminatus, *F.*
 exaratus, Msh.

CDEMERIDÆ.

Intermediate coxae cylindrical.

Eyes rounded, entire *Edemera.*

Eyes subreniform or slightly emarginate.

Head exserted.

Posterior tarsi as long as their tibiae *Dryops.*

Posterior tarsi much shorter than tibiae *Nacerdes.*

Head retracted *Ischnomera.*

Intermediate coxae globose *Mycterus.*

Ischnomera, Steph.

Asclera, *Schm.*

sanguinicollis, *F.*

cærulea, *L.*

Nacerdes, Schm.

melanura, *L.*

Dryops, F.

Oncomera, *Steph.*

femorata, *F.*

Edemera, Ol.

Necydalis, *F.*

lurida, *Msh.*

nobilis, *Scop.*

cærulea, *L.*

Mycterus, Clair.

Rhinomacer, *F.*

curculionoides, *F.*

CANTHARIDÆ.

Elytra of normal form, meeting at the suture *Cantharis*.
 Elytra attenuated behind, not meeting at the suture . *Sitaris*.

Cantharis, L.

Lytta, F.
vesicatoria, L.

Sitaris, Latr.

muralis, Forst.
humeralis, F.

MELOIDÆ.

One British genus only.

Meloë, L.

proscarabaeus, L.
violaceus, Msh.

autumnalis, Ol.

cicatricosus, Sch.
variegatus, Don.

STYLOPIDÆ.

Tarsi 2-jointed	<i>Elenchus</i> .
Tarsi 3-jointed	<i>Halictophagus</i> .
Tarsi 4-jointed	<i>Stylops</i> .

Stylops, Kby.

melittæ, Kby.

Halictophagus, Curt.

Curtisi, Dale.

Elenchus, Curt.

tenuicornis, Kby.

RHIPIPHORIDÆ.

One British genus only.

Metecucus, Gerst.

Rhipiphorus, F.

paradoxus, L.

MORDELLIDÆ.

Pygidium elongate, conical.

Posterior tibiæ transversely incised *Mordellistena*.

Posterior tibiæ not transversely incised.

Scutellum large *Tomoxia*.

Scutellum small *Mordella*.

Pygidium covered by the elytra *Anaspis*.

Anaspis, Geoff.

- flava, L.*
v. thoracica, L.
subtestacea, Steph.
ruficollis, F.
forcipata, Muls.
rufilabris, Gyll.
frontalis, L.
Geoffroyi, Müll.

Mordellistena, Costa.

- brunnea, F.*
humeralis, L.
v. flavescentia, Msh.

- parvula, Gyll.*
lateralis, Ol.
bicolor, Msh.
pumila, Gyll.
breviscauda, Boh.
abdominalis, F.
nigra, Msh.

Mordella, Geoff.

- aculeata, L.*
fasciata, F.

Tomoxia, Costa.

- biguttata, Gyll.*

PYROCHROIDÆ.

One British genus only.

Pyrochroa, Geoff.

- coccinea, L.*
purpurata, Schr.

- serraticornis, Scop.*
purpurata, Müll.
rubens, F.
pectinicornis, L.

ANTHICIDÆ.

Prothorax produced in front into a horn-like process. *Notoxus*.
 Prothorax not produced in front into a horn-like
 process *Anthicus*.

Notoxus, Geoff.

Anthicus, Pk.

monoceros, L.

Anthicus, Pk.

humilis, Germ.

salinus, Crotch.

bimaculatus, Ill.

angustatus, Curt.

floralis, L.

quisquilius, Th.

instabilis, Laf.

antherinus, L.

tristis, Schm.

ater, Steph.

v. Schaumii, Wall.

Scoticus, Rye.

PEDILIDÆ.

Prothorax narrower than the elytra *Euglenes*.
 Prothorax as broad as the elytra *Scaptia*.

Euglenes , Westw.	pygmæus, <i>De G.</i>
Xylophilus , Latr.	populneus, <i>F.</i>
Aderus , p., Westw.	boleti, <i>Msh.</i>
oculatus , <i>Gyll.</i>	populneus, <i>Pz.</i>
<i>pygmæus</i> , <i>Msk.</i>	Scaptia , <i>Latr.</i>
nigripennis , <i>Villa.</i>	<i>fusca</i> , <i>Latr.</i>
neglectus , <i>Duv.</i>	<i>fuscula</i> , <i>Müll.</i>

LAGRIIDÆ.

One British genus only.

Lagria, *F.**hirta*, *L.***MELANDRYIDÆ.**

Antennæ terminated by a club of four joints	<i>Tetratomæ</i> .
Antennæ filiform or gradually thicker.	
Antennæ 10-jointed	<i>Conopalpus</i> .
Antennæ 11-jointed.	
Anterior coxae contiguous.	
Claws trifid	<i>Osphya</i> .
Claws simple.	
Third joint of the maxillary palpi transversely triangular	<i>Serropalpus</i> .
Third joint of the maxillary palpi not transversely triangular.	
Head invisible from above.	
Penultimate joint of the tarsi subbilobed.	
Last joint of the maxillary palpi securiform or subsecuriform.	
Anterior tarsi slender	<i>Phlaeotrya</i> .
Anterior tarsi dilated	<i>Xylita</i> .
Last joint of the maxillary palpi ovoid	<i>Anisorya</i> .
Penultimate joint of the tarsi entire.	<i>Abdera</i> .
Head visible from above.	
Prothorax narrower behind	<i>Hypulus</i> .
Prothorax broader behind.	
Last joint of the labial palpi subtriangular	<i>Melandrya</i> .
Last joint of the labial palpi oval	<i>Zilora</i> .

Anterior coxae not contiguous.	
Tibial spurs very long	<i>Orchesia.</i>
Tibial spurs short.....	<i>Hallomenus.</i>
Hallomenus, Pz.	Hypulus, Pk.
humeralis, Pz.	[<i>Mystaxus, Kug.</i>]
Orchesia, Latr.	quercinus, Quens.
micans, Pz,	
undulata, Krz.	Zilora, Muls.
 	Parnus, p., F.
Abdera, Steph.	Xylita, p., Pk.
Carida, p., <i>Muls.</i>	
4-fasciata, <i>Curt.</i>	ferruginea, Pk.
3-guttata, <i>Gyll.</i>	
bifasciata, <i>Msh.</i>	obscura, F.
fexuosa, <i>Pk.</i>	
 	Melandrya, F.
Anisoxya, Muls.	
fuscula, <i>Ill.</i>	caraboides, L.
 	canaliculata, F.
Phloeotrya, Steph.	
rufipes, <i>Gyll.</i>	Conopalpus, Gyll.
Stephensi, <i>Duv.</i>	
 	testaceus, Ol.
Xylita, Pk.	
Dircaea, p., <i>F.</i>	brevicollis, Krz.
laevigata, <i>Hell.</i>	Osphya, Ill.
discolor, <i>F.</i>	
 	Nothus, Ol.
Serropalpus, Hell.	
striatus, <i>Hell.</i>	bipunctata, F.
 	Tetratoma, F.
 	fungorum, F.
 	Desmaresti, Latr.
 	pallida, Curt.
 	ancora, F.

PYTHIDÆ.

Body flat; mandibles prolonged	<i>Pytho.</i>
Body convex; mandibles not prolonged.	
Prothorax denticulate at the sides	<i>Lissodema.</i>
Prothorax not denticulate at the sides.	
Head prolonged into a depressed rostrum ...	<i>Rhinosimus.</i>
Head not prolonged	<i>Salpingus.</i>

Pytho, F.*depressus, L.**æneus, Steph.**castaneus, Pz.**foveolatus, Ljung.***Lissodema, Curt.***4-pustulatum, Msh.***Rhinosimus, Latr.***cursor, Gyll.**ruficollis, L.***Salpingus, Gyll.***planirostris, F.**ater, Pk.**viridipennis, Steph.***CISTELIDÆ.****Abdomen with five segments.***Anterior coxae contiguous **Mycetochares.****Anterior coxae not contiguous.***Antennæ subserrate.***Last joint of the antennæ appendiculate ... **Cistela.****Last joint of the antennæ not appendiculate **Prionychus.****Antennæ filiform **Isomira.*****Abdomen with six segments.***Anterior tarsi with the four basal joints cylindrical **Cteniopus.****Anterior tarsi with the four basal joints triangular **Omophlus.*****Mycetochares, Latr.***Mycetophila, Gyll.***Prionychus, Muls.***bipustulata, Ill.**Eryx, Steph.**ater, F.***Isomira, Muls.***murina, L.***Cteniopus, Sol.***sulphureus, L.***Cistela, F.***cerambooides, L.***Omophlus, Sol.***luperus, Hbst.**armeriae.**fulvipes, F.**(amerinæ, Curt.)***TENEBRIONIDÆ.****Labrum lodged in an emargination of the clypeus***(Pedininæ).**Epipleura continuous **Heliopates.***

- Epipleura abbreviated.
 - Last joint of the maxillary palpi securiform
(*Opatriinae*) *Opatum.*
 - Last joint of the maxillary palpi oval *Microzomum.*
- Labrum attached to the truncate apex of the clypeus.
 - Epipleura dilated (*Blaptinæ*) *Blaps.*
 - Epipleura not dilated.
 - Anterior tibiae compressed, subtriangular (*Phaleriinae*) *Phaleria.*
 - Anterior tibiae not compressed, gradually thicker to the tip.
 - Tarsi either naked or ciliated beneath.
 - Head ensconced in the prothorax.
 - Antennæ slender, more or less moniliform
(*Crypticinae*) *Cryptious.*
 - Antennæ short, more or less perfoliate.
 - Head with a transverse groove beneath
(*Bolitophaginæ*).
 - Eyes nearly divided by the cheeks *Bolitophagus.*
 - Eyes free *Heledona.*
 - Head without a groove beneath.
 - Intermediate coxae with trochantins (*Daperinae*).
 - Last joint of the maxillary palpi securiform *Platydema.*
 - Last joint of the maxillary palpi subcylindrical.
 - Basal joint of the posterior tarsi short. *Diaperis.*
 - Basal joint of the posterior tarsi of normal length.
 - Epipleura abbreviated *Scaphidema.*
 - Epipleura continuous *Alphitophagus.*
 - Intermediate coxae without trochantins (*Ulominæ*).
 - Antennæ clavate.
 - Mandibles cornute *Gnathocerus.*
 - Mandibles not cornute *Tribolium.*
 - Antennæ gradually thicker towards the tip.
 - Anterior tibiae denticulate externally.
 - Tarsi pubescent beneath *Uloma.*
 - Tarsi not pubescent beneath *Alphitobius.*

Anterior tibiae not denticulate *Hypophlaeus*.
 Head not ensconced (*Tenebrioninae*) *Tenebrio*.
 Tarsi villous beneath (*Helopinae*) *Helops*.

Helops, Fab.

cæruleus, L.
pallidus, Curt.
striatus, Fourc.
caraboides, Pz.

Scaphidema, Redt.

aeneum, Pk.

Diaperis, Geoff.

boleti, L.

Tenebrio, L.

[*Attalabus, L.*]

obscurus, F.
molitor, L.

Heledona, Latr.

agricola, Hbst.

Bolitophagus, Ill.

reticulatus, L.
crenatus, F.

Phaleria, Latr.

cadaverina, F.

Alphitobius, Steph.

diaperinus, Pz.
picus, Ol.

Mauritanicus, F.

Microzoum, Redt.

tibiale, F.

Uloma, Redt.

culinaris, L.

Opatrum, F.

sabulosum, L.

Heliopates, Muls.

gibbus, F.

Crypticus, Latr.

quisquilius, L.

Hypophlaeus, F.

[*Corticeus, Piller.*]

castaneus, F.
bicolor, Ol.

Blaps, F.

[*Blatta, L.*]

Tenebrio, L.

Gnathocerus, Thom.

cornutus, F.

mortisaga, L.

mucronata, Latr.

similis, Latr.

obtusa, Curt.

Tribolium, McL.

ferrugineum, F.

Alphitophagus, Steph.

4-pustulatus, Steph.

Platydema, Lap.

violaceum, F.

CIOIDÆ.

| | |
|---|-----------------------|
| Tarsi 5-jointed | <i>Lyctus.</i> |
| Tarsi 4-jointed. | |
| Antennæ 10-jointed. | |
| Anterior tibiæ spined at the apex | <i>Rhopalodontus.</i> |
| Anterior tibiæ not spined at the apex | <i>Cis.</i> |
| Antennæ 9-jointed | <i>Ennearthron.</i> |
| Antennæ 8-jointed | <i>Octotemnus.</i> |

Cis, Latr.

| | |
|--------------------------------|--|
| boleti, <i>Scop.</i> | |
| villosulus, <i>Msh.</i> | |
| micans, <i>Hbst.</i> | |
| hispidus, <i>Pk.</i> | |
| elongatulus, <i>Gyll.</i> | |
| bidentatus, <i>Ol.</i> | |
| inermis, <i>Msh.</i> | |
| nitidus, <i>Hbst.</i> | |
| Jacquemarti, <i>Mell.</i> | |
| lineatocribratus, <i>Mell.</i> | |
| punctulatus, <i>Gyll.</i> | |
| alni, <i>Gyll.</i> | |
| pygmaeus, <i>Msh.</i> | |
| rhododactylus, <i>Msh.</i> | |
| castaneus, <i>Mell.</i> | |
| fuscatus, <i>Mell.</i> | |

| |
|------------------------|
| festivus, <i>Pz.</i> |
| vestitus, <i>Mell.</i> |

Rhopalodontus, Mell.

| |
|--------------------------|
| perforatus, <i>Gyll.</i> |
| fronticornis, <i>Pz.</i> |

Ennearthron, Mell.

| |
|------------------------|
| affine, <i>Gyll.</i> |
| cornutum, <i>Gyll.</i> |

| |
|---------------------------|
| <i>Octotemnus, Mell.</i> |
| glabriculus, <i>Gyll.</i> |

Lyctus, F.

| |
|--------------------------|
| brunneus, <i>Steph.</i> |
| canaliculatus, <i>F.</i> |

BOSTRYCHIDÆ.

| | |
|---|--------------------|
| Claw-joint shorter than the rest together | <i>Bostrychus.</i> |
| Claw-joint longer than the rest together. | |

| | |
|---|---------------------|
| Club of the antennæ shorter than the five preceding joints together | <i>Rhizopertha.</i> |
| Club of the antennæ longer than the five preceding joints together | <i>Dinoderus.</i> |

Rhizopertha, Steph.

| |
|--------------------|
| pusilla, <i>F.</i> |
| |

Bostrychus, Geoff.

| |
|------------------|
| Apate, <i>F.</i> |
| |

Dinoderus, Steph.

| |
|-------------------------|
| substriatus, <i>Pk.</i> |
| |

| |
|----------------------|
| capucinus, <i>F.</i> |
| |

PTINIDÆ.

Antennæ dentate or clavate, inserted before the eyes (*Anobiinae*).

Antennæ 11-jointed.

Posterior coxae contiguous.

Pronotum distinct from the sides of the prothorax.

Elytra striate.

Elytra rounded at the apex *Anobium*.

Elytra truncate at the apex *Priobium*.

Elytra not striate.

Tarsi short, stout *Xestobium*.

Tarsi long, slender *Ernobius*.

Pronotum not distinct from the sides *Dryophilus*.

Posterior coxae not contiguous.

Antennæ denticulate in both sexes *Ochina*.

Antennæ flabellate (♂) or dentate (♀).

Body cylindrical *Ptilinus*.

Body ovate, depressed.

Elytra striate *Xyletinus*.

Elytra finely punctured *Lasioderma*.

Antennæ clavate, 9- or 10-jointed.

Posterior femora received into a cavity of the basal segment of the abdomen.

Eyes entire.

Four basal joints of the tarsi uniformly cylindrical *Dorcatoma*.

Four basal joints of the tarsi gradually thicker *Anitys*.

Eyes partially divided *Cænocara*.

Posterior femora not received in a cavity.

Body hemispherical *Coniporus*.

Body oblong *Sphindus*.

Antennæ filiform, inserted between the eyes (*Ptininae*).

Elytra glabrous, compressed at the sides.

Prothorax pubescent, ridged *Mezium*.

Prothorax glabrous, not ridged *Gibbium*.

Elytra pubescent and punctured, not compressed at the sides.

Intermediate coxae contiguous *Hedobia*.

Intermediate coxae not contiguous.

- Metasternum very short *Niptus*.
 Metasternum of normal length *Ptinus*.

Sphindus, Chev.

dubius, Gyll.

Gyllenhali, Chev.

Coniporus, Th.

Aspidiphorus, Latr.

orbiculatus, Gyll.

Anitys, Th.

rubens, Hoff.

Cœnocara, Th.

bovistæ, Hoff.

Dorcatoma, Hbst.

chrysomelina, Strm.

flavicornis, F.

Lasioderma, Steph.

Pseudochina, Duv.

serricorne, F.

Xyletinus, Latr.

ater, Pz.

Ochina, Steph.

hederæ, Müll.

Ptilinus, Geoff.

pectinicornis, L.

Ernobius, Th.

abietis, F.

mollis, L.

nigrinus, Strm.

Xestobium, Motsch.

tessellatum, F.

Anobium, F.

[*Byrrhus*, Geoff.]

denticolle, Pz.

domesticum, Fourc.

striatum, Ol.

fulvicorne, Strm.

paniceum, L.

Priobium, Motsch.

castaneum, F.

Dryophilus, Chev.

pusillus, Gyll.

anobioides, Chev.

Hedobia, Latr.

imperialis, L.

Ptinus, L.

[*Bruchus*, Geoff.]

germanus, F.

6-punctatus, Pz.

lichenum, Msh.

subpilosus, Müll.

fur, L.

latro, F.

Niptus, Boiel.

hololeucus, Falz.

crenatus, F.

Mezium, Curt.

affine, Boiel.

sulcatum, Strm.

Gibbium, Scop.

scotias, F.

LYMEXYLIDÆ.

- Antennæ simple, fusiform *Lymexylon*.
 Antennæ serrate *Hylecætus*.

Lymexylon, *F.*
Pterophorus, *Hbst.*
navae, *L.*

Hylecætus, *Latr.*
 [*Elateroides*, *Schäff.*]
dermestoides, *L.*

CLERIDÆ.

- Pronotum distinct from the sides of the prothorax.
 Last joint of the palpi triangular *Corynetes*.
 Last joint of the palpi oblong-ovate *Necrobia*.
 Pronotum not distinct from the sides.
 First tarsal joint concealed by the second.
 Eyes finely granulate.
 Labial and maxillary palpi securiform *Tarsostenus*.
 Labial palpi only securiform *Clerus*.
 Eyes coarsely granulate *Opilus*.
 First tarsal joint not covered by the second *Tillus*.

Necrobia, *Latr.*
ruficollis, *F.*
violacea, *L.*
rufipes, *De G.*

Clerus, *Geoff.*
 [*Necydalis*, *L.*]
Thanasimus, *Latr.*
formicarius, *L.*

Corynetes, *Hbst.*
cæruleus, *De G.*
Tarsostenus, *Spin.*
univittatus, *Rossi*.

Opilus, *Latr.*
mollis, *L.*
Tillus, *Ol.*
elongatus, *L.*
unifasciatus, *L.*

TELEPHORIDÆ.

- Abdomen with seven segments beneath.
 Antennæ approximate at the base.
 Intermediate coxæ contiguous (*Lampyrinæ*).
 Elytra very short (δ), absent (φ) *Phosphenus*.
 Elytra of normal length (δ), absent (φ) .. *Lampyris*.
 Intermediate coxæ not contiguous *Eros*.
 Antennæ not approximate at the base.
 Antennæ pectinate (δ) (*Drilinæ*)..... *Drilus*.

Antennæ not pectinate.

- Elytra covering the abdomen (*Telephorinae*).
 - Head ensconced in the prothorax *Silis*.
 - Head exserted *Telephorus*.
 - Elytra not covering the last segments of the abdomen.
 - Mandibles toothed *Malthinus*.
 - Mandibles not toothed *Malthodes*.
- Abdomen with six segments beneath (*Melyrinæ*).**
- Sides of the thorax and abdomen with exsertile caruncles.
 - Antennæ inserted between the eyes *Malachius*.
 - Antennæ inserted before the eyes *Anthocomus*.
 - Sides of the thorax and abdomen without caruncles.
 - Antennæ subfiliform or pectinate.
 - Tarsi short *Haplocnemus*.
 - Tarsi of normal length.
 - A membranous lobe to one claw of the tarsi *Dolichosoma*.
 - No membranous lobe *Dasytes*.
 - Antennæ clavate *Phloeophilus*.

Phloeophilus, Steph.

Edwardsii, Steph.

Haplocnemus, Steph.

impressus, Msh.

pini, Redt.

nigricornis, F.

Dolichosoma, Steph.

Psilotrich, p., Redt.

nobile, Ill.

protensum, Gené.

lineare, Rossi.

Dasytes, Pk.

flavipes, Ol.

plumbeus, Müll.

virens, Msh.

oculatus, Kies.

seratus, Steph.

Anthocomus, Er.

sanguinolentus, F.

fasciatus, L.

terminatus, Ménétt.

ruficollis, F.

Malachius, F.

Axinotarsus, p., Mots.

pulicarius, F.

ruficollis, Ol.

marginellus, Ol.

bispinosus, Curt.

viridis, F.

bipustulatus, L.

seneus, L.

Drilus, Ol.

flavescens, Rossi.

Malthodes, Kies.

sanguinolentus, Fall.

pellucidus, *Kies.*
marginatus, *Latr.*
dispar, *Germ.*
flavoguttatus, *Kies.*
misellus, *Kies.*
fibulatus, *Kies.*
guttifer, *Kies.*
mysticus, *Kies.*
brevicollis, *Pk.*
 nigellus, *Kies.*
atomus, *Th.*
 brevicollis, *Kies.*

Malthinus*, *Latr.

fasciatus, *Ol.*
balteatus, *Suffr.*
flaveolus, *Hbst.*
frontalis, *Msh.*

Silis*, *Latr.

ruficollis, *F.*

Telephorus*, *Schäff.
Podabrus, p., *Westw.*
Rhagonycha, p., *Esch.*

alpinus, *Pk.*
abdominalis, *F.*
fuscus, *L.*
rusticus, *Fall.*
 fuscus, *Ol.*
obscurus, *L.*
nigricans, *Müll.*
pellucidus, *F.*
 Cantianus, *Steph.*
lividus, *L.*
v. dispar, *F.*
haemorrhoidalis, *F.*
 clypeatus, *Ill.*

rufus, *L.*
v. lituratus, *Fall.*
Darwinianus, *Sharp.*
bicolor, *Hbst.*
 thoracicus, *Ol.*
figuratus, *Man.*
 bicolor, *F.*
Scoticus, *Sharp.*
discoideus, *Ahr.*
flavilabris, *Fall.*
paludosus, *Fall.*
? æthiops, *Curt.*
lateralis, *L.*
 marginatus, *Steph.*
pilosus, *Pk.*
 unicolor, *Curt.*
 ? translucidus, *Kry.*
melanurus, *Ol.*
fuscidornis, *Ol.*
testaceus, *L.*
limbatus, *Th.*
 testaceus, *Gyll.*
pallidus, *F.*
elongatus, *Fall.*
ater, *Pk.*

Lampyris*, *L.

noctiluca, *L.*

Phosphænus*, *Lap.
hemipterus, *Geoff.*

Eros*, *Newm.

coccineus, *L.*
aurora, *F.*
minutus, *F.*
affinis, *Pk.*

DASCILLIDÆ.

Mesosternum narrow, declivous.

Tarsi with lamellæ *Dascillus.*

Tarsi without lamellæ.

Posterior femora very thick: saltatorial *Scirtes.*

| | |
|--|------------------------------|
| Posterior femora of normal size : not saltatorial. | |
| Antennæ serrate | <i>Prionocyphon.</i> |
| Antennæ filiform. | |
| First tarsal joint elongate | <i>Helodes.</i> |
| First tarsal joint not elongate. | |
| Last joint of the palpi minute | <i>Hydrocyphon.</i> |
| Last joint of the palpi of normal size. | <i>Cyphon.</i> |
| Mesosternum broad, quadrate | <i>Eubria.</i> |
|
Eubria, Germ. | pallidulus, <i>Ba.</i> |
| palustris, Germ. | nitidulus, <i>Th.</i> |
|
Scirtes, Ill. | ♀ pallidiventris, <i>Th.</i> |
| hemisphaericus, L. | coarctatus, <i>Pk.</i> |
| | ♀ fuscicornis, <i>Th.</i> |
|
Hydrocyphon, Redt. | v. nigricans, <i>Ma.</i> |
| deflexicollis, Müll. |
Helodes, Latr. |
| pini, Curt. | minutus, <i>L.</i> |
|
Prionocyphon, Redt. | pallidus, <i>F.</i> |
| serricornis, Müll. | marginatus, <i>F.</i> |
|
Cyphon, Payk. | testaceus, <i>L.</i> |
| padi, L. | lividus, <i>F.</i> |
| variabilis, Thun. | v. Bohemani, <i>Man.</i> |
| ♂ nigriceps, <i>Kies.</i> |
Dascillus, Latr. |
| dorsalis, <i>Ma.</i> | Atopa, <i>Pk.</i> |
| | cervinus, <i>L.</i> |

ELATERIDÆ.

| | |
|--|------------------|
| Prosternum produced anteriorly. | |
| Prosternal groove deep, receiving the antennæ... | <i>Lacon.</i> |
| Prosternal groove shallow or rudimentary. | |
| Front carinated. | |
| Scutellum oblong or oval. | |
| Claws simple. | |
| Head inclined, mouth anterior. | |
| Eyes large, prominent | <i>Athous.</i> |
| Eyes moderate, not prominent | <i>Limonius.</i> |
| Head vertical, mouth beneath. | |
| Prosternum grooved anteriorly for the reception of the base of the antennæ | <i>Elater.</i> |

| | |
|--|----------------------|
| Prosternum not grooved. | |
| Antennæ serrate. | |
| Third joint of the antennæ triangular ... | <i>Ischnodes.</i> |
| Third joint of the antennæ obconic | <i>Megapenthes.</i> |
| Antennæ filiform | <i>Cryptohypnus.</i> |
| Claws pectinate | <i>Melanotus.</i> |
| Scutellum cordiform | <i>Cardiophorus.</i> |
| Front not carinated. | |
| Head inclined, flat or concave in front. | |
| Proximal end of the posterior coxæ abruptly enlarged | <i>Ludius.</i> |
| Proximal end of the posterior coxæ feebly enlarged | <i>Corymbites.</i> |
| Head short, vertical, convex in front. | |
| Maxillary palpi with the last joint securiform. | |
| Claws pectinate | <i>Synaptus.</i> |
| Claws not pectinate. | |
| Lateral carina of the prothorax inclined ... | <i>Agriotes.</i> |
| Lateral carina of the prothorax straight. | |
| Proximal end of the posterior coxæ abruptly enlarged | <i>Dolopius.</i> |
| Proximal end of the posterior coxæ not abruptly enlarged | <i>Sericosomus.</i> |
| Maxillary palpi with the last joint oval, acuminate | <i>Adrastus.</i> |
| Prosternum not produced anteriorly | <i>Campylus.</i> |

Campylus, Fisch.

[Denticollis, Piller.]

linearis, L.

Adrastus, Eschs.

limbatus, F.

Synaptus, Eschs.

Ctenonychus, Steph.

filiformis, F.

Sericosomus, Redt.

[Sericus, Eschs.]

brunneus, L.

Dolopius, Eschs.

marginatus, L.

Agriotes, Eschs.

pallidulus, Ill.

sobrinus, Kies.

sordidus, Ill.

obscurus, L.

lineatus, L.

sputator, L.

pilosus, Pz.

Ludius, Latr.

ferrugineus, L.

Corymbites, Latr.

Diacanthus, p., Latr.

Selatosomus, p., Steph.

bipustulatus, L.

seneus, *L.*
impressus, *Msh.*
metallicus, *Pk.*
impressus, *F.*
tessellatus, *L.*
holosericeus, *Ol.*
quercus, *Gyll.*
castaneus, *L.*
pectinicornis, *L.*
cupreus, *F.*

Athous, Esch.

haemorrhoidalis, *F.*
niger, *L.*
hirtus, *Hbst.*
rhombeus, *Ol.*
subfuscus, *Müll.*
analis, *F.*
undulatus, *De G.*
vittatus, *F.*
diformis, *Lac.*
longicollis, *Ol.*

Limonius, Eschs.

cylindricus, *Pk.*
minutus, *L.*
parvulus, *Pz.*

Melanotus, Eschs.

Cratonychus, *Lac.*

rufipes, *Hbst.*
castaneipes, *Pk.*
niger, *F.*

Cardiophorus, Eschs.

asellus, *Er.*
ruficollis, *L.*
thoracicus, *F.*
formosus, *Curt.*
cinereus, *Hbst.*
equiseti, *Hbst.*

Cryptohypnus, Eschs.

Aplotarsus, *p.*, *Curt.*
Hypolithus, *Steph.*
dermestoides, *Hbst.*
pulchellus, *L.*
4-pustulatus, *F.*
sabulicola, *Boh.*
riparius, *F.*
maritimus, *Curt.*

Megapenthes, Kies.

lugens, *Redt.*
gagates, *Curt.*
tibialis, *Lac.*
cothurnatus, *Curt.*

Ischnodes, Germ.

sanguinicollis, *Pz.*

Elater, L.

Ampedus, *Germ.*

nigrinus, *Hbst.*
tristis, *L.*
æthiops, *Lac.*
elongatus, *F.*
præustus, *Steph.*
balteatus, *L.*
pomonæ, *Steph.*
ferrugatus, *Lac.*
pomorum, *Hbst.*
crocatus, *Steph.*
coccinatus, *Rye.*
sanguinolentus, *Schr.*
ephippium, *Ol.*
lythropterus, *Germ.*
sanguineus, *Steph.*
sanguineus, *L.*
rufipennis, *Steph.*

Lacon, Lap.

murinus, *E.*

EUCNEMIDÆ.

- Prosternum produced anteriorly.
 Antennæ received into a groove of the prothorax. *Throscus*.
 Antennæ not received into a groove of the prothorax..... *Cerophytum*.
 Prosternum not produced anteriorly.
 Tibiæ compressed *Melasis*.
 Tibiæ not compressed, filiform *Microrhagus*.

| | |
|--------------------------|----------------------------|
| Throscus, Latr. | Melasis, Ol. |
| dermestoides, L. | buprestoides, L. |
| elateroides, Heer. | |
| obtusus, Curt. | |
| Cerophytum, Latr. | Microrhagus, Eschs. |
| elateroides, Latr. | Dirhagus, Latr. |
| | pygmæus, F. |

BUPRESTIDÆ.

- Claws simple..... *Anthaxia*.
 Claws bifid or appendiculate.
 Tarsi short.
 Body long, linear *Aphanisticus*.
 Body short, broad *Trachys*.
 Tarsi of normal length *Agrilus*.

| | |
|----------------------------|-------------------------|
| Aphanisticus, Latr. | sinuatus, Ol. |
| pusillus, Ol. | chryseis, Curt. |
| Trachys, F. | biguttatus, F. |
| Cucujus, Geoff. | angustulus, Ill. |
| minuta, L. | viridis, Steph. |
| troglodytes, Gyll. | laticornis, Ill. |
| nana, Hbst. | |
| | Anthaxia, Eschs. |
| Agrilus, Sol. | nitidula, L. |
| Cucujus, p., Geoff. | salicis, F. |
| viridis, L. | |

SCARABAEIDÆ.

- Stigmata situated only on the membrane connecting the dorsal and ventral segments of the abdomen (Laparosticta).
- Abdomen with six ventral segments.
- Antennæ with not more than ten joints.
- A single spine to the posterior tibiæ (*Coprinae*).
- With a scutellum *Copris*.
 - Without a scutellum *Onthophagus*.
- Two spines to the posterior tibiæ.
- Antennæ 9-jointed (*Aphodiinae*).
- Claws of normal size.
- Labrum membranous.
- Eyes visible in repose.
- Pronotum longitudinally grooved behind. *Oxyomus*.
 - Pronotum not longitudinally grooved.
 - Apex of elytra obliquely truncate *Plagiogonus*.
 - Apex of elytra entire.
 - Elytra striate, interstices flat *Aphodius*.
 - Elytra striate, interstices raised *Heptaulacus*.
- Eyes not visible in repose.
- Elytra covering the pygidium *Ammæcius*.
 - Elytra not covering the pygidium *Rhyssemus*.
- Labrum corneous..... *Egialius*.
- Claws rudimentary *Psammobius*.
- Antennæ 11-jointed (*Geotrypinae*).
- Mentum deeply emarginate *Geotrypes*.
 - Mentum entire *Odontæus*.
- Abdomen with five ventral segments (*Troginae*)... *Trox*.
- Stigmata on the connecting membrane, as well as others on the ventral segments themselves (Pleurosticta).
- Last three abdominal stigmata slightly diverging (*Melolonthinae*).
- Claws unequal *Hoplia*.
 - Claws equal.
- Anterior coxae conical, exserted.
- Intermediate coxae approximate *Serica*.
 - Intermediate coxae not approximate *Homaloplia*.
- Anterior coxae oblong, transverse.
- Antennary mass of three lamellæ only *Rhizotrogus*.
 - Antennary mass of more than three *Melolontha*.

Last three abdominal stigmata strongly diverging.

Claws unequal (*Rutelineæ*).

- | | |
|-------------------------------|-----------------------|
| Elytra broad, convex..... | <i>Anomala</i> . |
| Elytra narrow, depressed..... | <i>Phyllopertha</i> . |

Claws equal (*Cetoniinae*).

Mesothoracic epimera visible above.

- | | |
|----------------------------------|--------------------|
| Anterior tibiae bidentate..... | <i>Oxythyrea</i> . |
| Anterior tibiae tridentate | <i>Cetonia</i> . |

Mesothoracic epimera not visible above.

- | | |
|--|-------------------|
| Anterior tibiae slightly bidentate | <i>Trichius</i> . |
| Anterior tibiae strongly bidentate | <i>Gnorimus</i> . |

Trichius, F.

- fasciatus, L.*
abdominalis, Mén.

Gnorimus, Serv.

- nobilis, L.*
variabilis, L.

Oxythyrea, Muls.

- stictica, L.*

Cetonia.

- aurata, L.*
floricola, Hbst.

Anomala, Lam.

- Frischii, F.*
Donovani, Steph.

Phyllopertha, Kby.

- horticola, L.*

Melolontha.

- vulgaris, F.*
hippocastani, F.

Rhizotrogus, Latr.

- solstitialis, L.*
ochraceus, Knoch.

Serica, McL.

- brunnea, L.*
fulva, De G.

Homaloplia, Steph.

- ruricola, F.*
v. disca, Muls.

Hoplia, Ill.

- philanthus, Fuessl.*
argentea, Ol.

Trox, F.

- hispidus, Laich.*
sabulosus, L.
scaber, L.
arenarius, F.

Geotrypes, Latr.

- Typhoeus, Lch.*

- vernalis, L.*
sylvaticus, Pz.
mutator, Msh.
stercorarius, Hbst.
spiniger, Msh.
stercorarius, Er.
mesoleius, Th.
stercorarius, L.
putridarius, Er.
Typhoeus, L.

- Odontæus, Klug.**
mobilicornis, *F.*
- Megalia, Latr.**
sabuleti, *Pz.*
rufa, *F.*
arenaria, *F.*
globosa, *Steph.*
- Psammobius, Heer.**
cæsus, *Pz.*
sulcicollis, *Ill.*
- Rhyssemus, Muls.**
germanus, *L.*
asper, *F.*
- Oxyomus, Lap.**
porcatus, *F.*
- Heptaulacus, Muls.**
sus, *Hbst.*
testudinarius, *F.*
villosus, *Gyll.*
- Ammoeius, Muls.**
brevis, *Er.*
- Plagiogonus, Muls.**
arenarius, *Ol.*
rhododactylus, *Msh.*
- Aphodius, Ill.**
depressus, *Klug.*
v. nigripes, Steph.
luridus, *F.*
rufipes, *L.*
obliteratus, *Pz.*
contaminatus, *Hbst.*
consputus, *Crtz.*
punctato-sulcatus, *Stm.*
? sabulicola, *Th.*
prodromus, *Brahm.*
consputus, *F.*
- merdarius, *F.*
4-maculatus, *L.*
pusillus, *Hbst.*
 granarius, F.
tristis, *Pz.*
scrofa, *F.*
porcus, *F.*
Zenkeri, *Germ.*
tessulatus, *Pk.*
 contaminatus, Pz.
 inquinatus, Ol.
conspurcatus, *L.*
sticticus, *Pz.*
 prodromus, F.
inquinatus, *Hbst.*
melanostictus, *Schm.*
lividus, *Ol.*
plagiatus, *L.*
niger, *Pz.*
nitidulus, *F.*
 merdarius, Pz.
rufescens, *F.*
sordidus, *F.*
v. limbatellus, Muls.
nemoralis, *Er.*
putridus, *Stm.*
fœtidus, *F.*
putridus, *Hbst.*
Lapponum, *Gyll.*
 subalpinus, Hardy.
granarius, *L.*
constans, *Duft.*
 nitidus, Steph.
ater, *De G.*
filmetarius, *L.*
fœtens, *F.*
v. scrutator, Msh.
scybalarius, *F.*
 coprinus, Msh.
hæmorrhoidalis, *L.*
v. bimaculatus, Kug.
fossor, *L.*
subterraneus, *L.*
erraticus, *L.*

Onthophagus, Latr.

ovatus, L.
fracticornis, Preys.
nuchicornis, ÖL.
comobita, Host.

vacca, L.

nutans, F.
taurus, L.

Copris, Geof.*lunaris, L.***LUCANIDÆ.**

Mentum concealing the maxillæ.

Inner maxillary lobe terminating in a hook in ♀. *Dorcus*.Inner maxillary lobe not terminating in a hook
in either sex *Lucanus*.Mentum not concealing the maxillæ *Sinodendron*.**Sinodendron, Hellw.**

Ligniperda, F.
cylindricans, L.

Dorcus, McLeay.

parallelopipedus, L.
Lucanus, L.
cervus, L.

HETEROCERIDÆ.

One British genus only.

Heterocerus, F.

arenarius, Kies.
flexuosus, Steph.
femoralis, Kryn.
marginatus, F.

obsoletus, Curt.
leavigatus, Pz.
fusculus, Kies.
sericans, Kies.
pusillus, Steph.

PARNIDÆ.

Anterior coxae cylindrical.

Intermediate coxae approximate *Parnus*.Intermediate coxae not approximate *Potaminus*.

Anterior coxae subglobose.

Antennæ 11-jointed.

Scutellum small, triangular or oblong.

Maxillary palpi of four distinct joints *Elmis*.Maxillary palpi of three only (apparently). *Lareynia*.Scutellum large, suborbicular *Limnius*.Antennæ 6-jointed *Macronychus*.**Macronychus, Müll.***4-tuberculatus, Müll.***Lareynia, Duv.***Elmis, p., Latr.**senea, Müll.*

- Elmis**, *Latr.*
Esolus, p., *Muls.*
Riolus, p., *Muls.*
Volkmari, *Pz.*
parallelopipedus, *Müll.*
cupreus, *Müll.*
nitens, *Müll.*
subviolaceus, *Müll.*
- Limnius**, *Müll.*
tuberculatus, *Müll.*
variabilis, *Steph.*
troglodytes, *Gyll.*

- Potaminus**, *Stm.*
[*Dryops*, *Ol.*]
substriatus, *Müll.*
Dumerili, *Latr.*
- Parnus**, *F.*
prolifericornis, *F.*
auriculatus, *Ol.*
v. bicolor, *Curt.*
striatellus, *Fair.*
auriculatus, *Pz.*
nitidulus, *Heer.*

GEORYSSIDÆ.

One British genus only.

- Georyssus**, *Latr.*
Cathamistes, *Ill.*
pygmæus, *F.*

BYRRHIDÆ.

Anterior, or all, the tarsi retractile.

- | | |
|---|----------------------|
| Last three joints of the antennæ forming an abrupt club | <i>Syncalypta</i> . |
| Last five or six joints of the antennæ gradually stouter. | |
| All the tarsi retractile | <i>Byrrhus</i> . |
| Two anterior tarsi only retractile. | |
| Mandibles concealed in repose..... | <i>Cytillus</i> . |
| Mandibles not concealed in repose | <i>Morychus</i> . |
| Tarsi not retractile. | |
| Tibiæ compressed | <i>Simplocaria</i> . |
| Tibiæ terete | <i>Limnichus</i> . |

- Limnichus**, *Latr.*
pygmæus, *Stm.*
sericeus, *Steph.*

- Simplocaria**, *Msh.*
semistriata, *F.*

- Morychus**, *Er.*
[*Pedilophorus*, *Staf.*]
seneus, *F.*

- Cytillus**, *Er.*
varius, *F.*

Byrrhus, Latr.
[*Cistela, Geoff.*]*murinus, F.*
dorsalis, F.
*fasciatus, Ol.**Dennyi, Curt.*
*pilula, L.***Syncalypta, Steph.**
spinosa, Rossi.
*setigera, Ill.***DERMESTIDÆ.**

With a frontal ocellus.

Mesosternum narrow, entire.

Prosternum produced in front..... *Megatoma.*Prosternum not produced in front *Attagenus.*Mesosternum broad, notched for the reception of
the prosternum.

With prothoracic antennary grooves.

Scutellum nearly covered by the prothorax ... *Anthrenus.*Scutellum exposed *Tiresias.*Without prothoracic grooves *Trinodes.*Without a frontal ocellus..... *Dermestes.***Trinodes, Latr.***hirtus, F.***Anthrenus, Geoff.***varius, F.**museorum, L.**pimpinellæ, F.**scrophulariae, L.**claviger, Er.***Tiresias, Steph.***serra, F.***Megatoma, Hbst.***undata, L.***Attagenus, Latr.***pellio, L.**ater, Hbst.**piceus, Ol.**megatoma, F.***Dermestes, L.***lardarius, L.**tessellatus, F.**murinus, L.**Frischii, Kug.**vulpinus, Ill.**vulpinus, F.***CRYPTOPHAGIDÆ.**Tarsi 3-jointed in both sexes (*Latridiinae*).Without eyes *Anommatus.*

With eyes.

Club of the antennæ 3-jointed.

Prothorax denticulate at the sides *Corticaria.*

- Prothorax not denticulate at the sides.
 - Pronotum bicarinate..... *Latridius.*
 - Pronotum not bicarinate
- Club 2-jointed
- Tarsi 4-jointed in the females, the anterior of the males 3-jointed (*Mycetophaginæ*).
 - Eyes transverse.
 - Club 4-5-jointed
 - Club 3-jointed
 - Eyes rounded.
 - Labium emarginate
 - Labium not emarginate
- Anterior tarsi 5-jointed in both sexes (*Cryptophaginæ*).
 - Club of the antennæ 3-jointed.
 - Posterior tarsi 4-jointed in the males.
 - Mesosternum notched for the reception of the prosternum
 - Mesosternum not notched
 - All the tarsi 5-jointed in both sexes.
 - Antennæ inserted on the sides of the head in front.
 - Prothorax transverse..... *Paramecosoma.*
 - Prothorax oblong
 - Antennæ inserted between the eyes.
 - Body oblong, pubescent
 - Body short, glabrous..... *Ephistemus.*
 - Club of the antennæ of one joint only
 - Tarsi subpentamerous in both sexes (*Telmatophilinæ*).
 - Anterior coxæ globose, not exserted
 - Anterior coxæ oval, slightly exserted.
 - Club 3-jointed.
 - Claws dilated at the base
 - Claws simple
 - Club 2-jointed

(According to Erichson and Lacordaire, *Monotoma* has only three joints to all the tarsi; Duval gives five. I think the latter nearer the mark, although it is very difficult to make out the basal and the penultimate joints.

Duval places *Psammæcus* with *Telmatophilus*, while *Byturus* by Redtenbacher is referred to Dermestidæ, and by Kraatz, with *Diplocælus*, to Cucujidæ.)

- Byturus, Latr.**
 [*Trixagus, Kug.*]
tomentosus, F.
- Biphyllus, Steph.**
lunatus, F.
- Diplocoelus, Guér.**
fagi, Guér.
- Telematophilus, Heer.**
sparcianii, Ahr.
caricis, Ol.
typhæ, Fall.
brevicollis, Aubé.
- Cryptophagus, Hbst.**
Kateretes, p., Hbst.
lycoperi, Hbst.
pilosus, Gyll.
setulosus, Stm.
saginatus, Stm.
Schmidti, Stm.
affinis, Stm.
cellaris, Scop.
acutangulus, Gyll.
validus, Krz.
Waterhousei, Rye.
fumatus, Msh.
dentatus, Hbst.
badius, Stm.
fuscicornis, Stm.
populi, Pk.
 grandis, Krz.
umbrosus, Er.
Scanicus, L.
distinguendus, Stm.
ruficornis, Steph.
scutellatus, Newm.
 bicolor, Stm.
pubescens, Stm.
 ? Lapponicus, Gyll.
vini, Pz.
 ulicis, Steph.
- Antherophagus, Latr.**
nigricornis, F.
 silaceus, Stm.
 silaceus, Hbst.
pallens, F.
- Paramecosoma, Curt.**
melanocephalum, Hbst.
bicolor, Curt.
- Atomaria, Steph.**
Dermestes, p., Hbst.
ferruginea, Schl.
filmetaria, Hbst.
diluta, Er.
linearis, Steph.
elongatula, Er.
badia, Er.
umbrina, Gyll.
 fumata, Er.
longicornis, Th.
Barani, Bris.
Wollastoni, Sharp.
nigriventris, Steph.
 nana, Er.
impressa, Er.
munda, Er.
nigripennis, Pk.
fuscata, Schön.
pusilla, Pk.
 fulvicollis, Steph.
peltata, Krz.
atricapilla, Steph.
nitidula, Heer.
 basalis, Er.
mesomelas, Hbst.
gutta, Steph.
fuscipes, Gyll.
testacea, Steph.
 analis, Er.
versicolor, Er.
 turgida, Murr.
apicalis, Er.
 atra, Gyll.

ruficornis, *Msh.*

divisa, *Rye.*

gibbula, *Er.*

Hislopi, *Woll.*

Ephistemus, *Steph.*

gyrinoides, *Msh.*

globosus, *Steph.*

nigriclavus, *Steph.*

globosus, *Walt.*

globulus, *Pk.*

Hypocoprus, *Mots.*

latridioides, *Mots.*

Monotoma, *Hbst.*

conicollis, *Aubé.*

angusticollis, *Th.*

angusticollis, *Gyll.*

formicetorum, *Th.*

picipes, *Hbst.*

spinicollis, *Aubé.*

brevicollis, *Aubé.*

quadrinotatus, *Aubé.*

rufa, *Redt.*

4-foveolata, *Aubé.*

longicollis, *Gyll.*

Holoparamecus, *Curt.*

singularis, *Beck.*

Enicmus, *Th.*

Latridius, p., *Hbst.*

carbonarius, *Man.*

transversus, *Ol.*

rugosus, *Hbst.*

testaceus, *Steph.*

consimilis, *Man.*

minutus, *L.*

ruficollis, *Msh.*

flum, *Aubé.*

filiformis, *Gyll.*

elongatus, *Curt.*

Latridius, *Hbst.*

nodifer, *Westw.*

constrictus, *Humm.*

carinatus, *Gyll.*

angusticollis, *Humm.*

angulatus, *Man.*

undulatus, *Mots.*

pini, *Mots.*

lardarius, *L.*

Corticaria, *Msh.*

crenulata, *Gyll.*

cylindrica, *Man.*

borealis, *Woll.*

fulva, *Com.*

denticulata, *Gyll.*

serrata, *Pk.*

fenestralis, *L.*

ferruginea, *Msh.*

v. rufula, *Zett.*

gibbosa, *Hbst.*

Wollastonii, *Wat.*

fuscula, *Humm.*

curta, *Woll.*

Anommatus, *Wesm.*

12-striatus, *Müll.*

Typhæa, *Curt.*

fumata, *L.*

Litargus, *Er.*

bifasciatus, *F.*

Triphyllus, *Latr.*

punctatus, *F.*

suturalis, *F.*

Mycetophagus, *Hellw.*

[*Tritoma*, *Geoff.*]

Boletaria, *Msh.*

4-pustulatus, *L.*

| | |
|-------------------------------|--------------------------|
| <i>piceus, F.</i> | <i>fulvicollis, F.</i> |
| <i>variabilis, Hellw.</i> | <i>populi, F.</i> |
| <i>atomarius, F.</i> | <i>4-guttatus, Müll.</i> |
| <i>multipunctatus, Hellw.</i> | |

Gen. inc. sed.

Myrmecoxenus, Chev.

vaporariorum, Guér.

CUCUJIDÆ.

Antennæ filiform.

Anterior angles of the prothorax produced ... *Brontes.*

Anterior angles of the prothorax rounded ... *Dendrophagus.*

Antennæ subclavate.

Basal joint of the antennæ longer than the second and third together *Psammocerus.*

Basal joint of the antennæ shorter than the second and third together.

Tarsi heteromerous in the males.

Labium entire *Pediactus.*

Labium bilobed *Læmophlebus.*

Tarsi pentamerous in both sexes.

Club with the last joint smaller than the others *Nausibius.*

Club with the last joint larger than the others *Silvanus.*

Nausibius, Redt.

Læmophlebus, Lap.

dentatus, Msh.

clematidis, Er.

ater, Ol.

spartii, Curt.

surinamensis, L.

ferrugineus, Steph.

6-dentatus, F.

duplicatus, Walzl.

bidentatus, F.

bimaculatus, Pk.

unidentatus, Ol.

unifasciatus, Latr.

similis, Er.

Psammocerus, Latr.

Dendrophagus, Schön.

Crypta, Steph.

crenatus, Pk.

bipunctatus, F.

sulcatus, F.

Pediactus, Shuck.

Brontes, F.

depressus, Hbst.

Uleiota, Latr.

dermestoides, F.

planatus, L.

COLYDIIDÆ.

Anterior coxae contiguous.

Abdominal segments equal in length (*Synchitinae*).
Antennæ 11-jointed.

Pronotum dilated at the sides..... *Endophloeus*.
 Pronotum not dilated at the sides *Bitoma*.

Antennæ 10-jointed.

Antennæ stout, fusiform *Sarrotrium*.
 Antennæ with the last joint only enlarged.
 With antennary grooves *Cicones*.
 Without antennary grooves *Synchita*.

Abdomen with the basal segment longest (*Colydiinae*).

With eyes.

With antennary ridges..... *Colydium*.
 Without antennary ridges.

Club of the antennæ with two distinct
joints *Teredus*.
 Club of the antennæ with the last joint
rudimentary *Oxylæmus*.

Without eyes..... *Aglenus*.
Anterior coxae widely apart (*Ceryloninae*) *Cerylon*.

Cerylon, Latr.

fagi, *Bris.*
histeroides, *F.*
ferrugineum, *Steph.*
angustatum, *Er.*
deplanatum, *Gyll.*

Aglenus, Er.
brunneus, *Gyll.*

Oxylæmus, Er.
cylindricus, *Pz.*
cæsus, *Er.*

Teredus, Schuck.
nitidus, *F.*

Colydium, F.
elongatum, *F.*

Cicones, Curt.

variegatus, *Hellw.*
carpini, *Curt.*

Synchita, Hellw.
juglandis, *F.*
Mediolanensis, *Villa*.

Bitoma, Hbst.
crenata, *Hbst.*

Endophloeus, Er.
spinulosus, *Latr.*

Sarrotrium, Ill.
 [*Orthocerus*, *Latr.*]
clavicone, *L.*
muticum, *L.*

TROGOSITIDA.

- Body elongate.
 Elytra covering the abdomen *Trogosita*.
 Elytra leaving the last segment uncovered *Nemosoma*.
 Body subhemispherical *Thymalus*.

Nemosoma, Latr.*elongatum, L.***Thymalus, Duft.***limbatus, F.***Trogosita, Ol.**[*Tenebrioides, Piller.*]**Mauritanica, L.***caraboides, F.*

NITIDULIDA.

- Last joint of the antennæ rudimentary (*Rhizophaginae*) *Rhizophagus*.
 Last joint of the antennæ distinct.
 Clypeus covering the labrum (*Ipidinae*).
 Prosternum covering the mesosternum *Cryptarcha*.
 Prosternum not covering the mesosternum ... *Ips*.
 Clypeus not covering the labrum.
 Elytra not covering the last two or three segments of the abdomen.
 Maxillæ with one lobe (*Carpophilinae*) *Carpophilus*.
 Maxillæ with two lobes (*Brachypterinae*).
 Claws toothed at the base *Brachypterus*.
 Claws not toothed at the base *Cercus*.
 Elytra leaving the pygidium only uncovered (*Nitidulinae*).
 Prosternum prolonged behind the anterior coxae.
 Without antennary grooves *Thalycra*.
 With antennary grooves.
 Tibiae toothed on the outer margin ... *Meligethes*.
 Tibiae not toothed on the outer margin.
 Tibiae ciliated.
 Tarsi dilated *Cychramus*.
 Tarsi not dilated *Pocadius*.
 Tibiae not ciliated *Pria*.
 Prosternum not prolonged behind the anterior coxae.
 Antennary grooves subcephalic, parallel. *Ipidia*.

| | |
|---|------------------|
| Antennary grooves subcephalic, converging. | |
| Tarsi dilated. | |
| Last joint of the palpi larger than the preceding one | <i>Epuraea.</i> |
| Last joint of the palpi not larger than the preceding one | <i>Nitidula.</i> |
| Tarsi not dilated..... | <i>Soronia.</i> |
| Antennary grooves subophthalmic. | |
| Elytra with a dilated margin at the sides | <i>Amphotis.</i> |
| Elytra without a dilated margin at the sides | <i>Omosita.</i> |

Rhizophagus, Hbst.

- depressus, *F.*
cribratus, *Gyll.*
ferrugineus, *Pk.*
perforatus, *Er.*
parallelocollis, *Gyll.*
nitidulus, *F.*
dispar, *Pk.*
bipustulatus, *Hbst.*
bipustulatus, *F.*
politus, *Hellw.*
cæruleipennis, *Sahl.*
cæruleus, *Waltl.*

Cryptarcha, Shuck.

- strigata*, *F.*
imperialis, *F.*

Ips, F.

- Pityophagus*, p., *Shuck.*
ferrugineus, *L.*
4-pustulatus, *L.*
4-punctatus, *Hbst.*
4-guttatus, *F.*

Cychramus, Kug.

- Campta*, *Steph.*

luteus, *F.***fungicola**, *Heer.***Pocadius, Er.**

- ferrugineus*, *F.*

Thalycra, Er.

- fervida*, *Ol.*
sericea, *Stm.*

Meligethes, Steph.

- Strongylus*, p., *Hbst.*
rufipes, *Gyll.*
v. subcastaneus, *Steph.*
lumbaris, *Stm.*
v. flavimanus, *Steph.*
fulvipes, *Bris.*
aeneus, *F.*
v. cæruleus, *Msh.*
viridescens, *F.*
coracinus, *Stm.*
sympyti, *Heer.*
corvinus, *Er.*
subrugosus, *Gyll.*
morosus, *Er.*
brunnicornis, *Stm.*
difficilis, *Stm.*
viduatus, *Stm.*
pedicularius, *F.*
bidens, *Bris.*
serripes, *Gyll.*
marrubii, *Bris.*

maurus, *Stm.*
planiusculus, *Heer.*
 ♀ *seniculus*, *Er.*
ovatus, *Stm.*
flavipes, *Stm.*
picipes, *Stm.*
rotundicollis, *Bris.*
lugubris, *Stm.*
distinctus, *Stm.*
obscurus, *Er.*
 ♂ *palmatus*, *Er.*
erythropus, *Gyll.*
bidentatus, *Bris.*
exilis, *Stm.*
solidus, *Kug.*
pictus, *Rye.*

Pria, *Steph.*
Laria, p., *Scop.*
dulcamarae, *Scop.*

Ipidia, *Er.*
4-notata, *F.*
Amphotis, *Er.*
marginata, *F.*

Soronia, *Er.*
grisea, *L.*
punctatissima, *Ill.*

Omosita, *Er.*
depressa, *L.*
 colon, *Hbst.*
colon, *L.*
discoidea, *F.*

Nitidula, *F.*
bipustulata, *L.*
flexuosa, *F.*
rufipes, *L.*
obscura, *F.*
4-pustulata, *F.*

Epuræa, *Er.*
limbata, *F.*
10-guttata, *F.*
v. fuscicollis, *Steph.*
diffusa, *Bris.*
silacea, *Hbst.*
æstiva, *L.*
 obsoleta, *Hbst.*
melina, *Stm.*
depressa, *Ill.*
deleta, *Stm.*
silacea, *Heer.*
longula, *Er.*
neglecta, *Heer.*
rufomarginata, *Steph.*
 parvula, *Stm.*
variegata, *Hbst.*
 obsoleta, *F.*
oblonga, *Steph.*
angustula, *Er.*
pusilla, *Ill.*
oblonga, *Hbst.*
florea, *Er.*
melanocephala, *Msh.*

Carpophilus, *Steph.*
hemipterus, *L.*
bimaculatus, *Ol.*
6-pustulatus, *F.*
Brachypterus, *Kug.*
glaber, *Newm.*
pubescens, *Er.*
urticæ, *F.*
gravidus, *Ill.*

Cercus, *Latr.*
Heterhelus, p., *Duv.*
pedicularius, *L.*
bipustulatus, *Pk.*
rufilabris, *Latr.*
sambuci, *Er.*
rubiginosus, *Er.*

PHALACRIDÆ.

- All the tarsi equal in length *Phalacrus*.
 Posterior tarsi longest.
 Elytra with two sutural striae *Olibrus*.
 Elytra with one sutural stria *Stilbus*.

| | |
|---------------------------|----------------------------|
| Stilbus, Seidl. | <i>affinis, Stm.</i> |
| <i>oblongus, Er.</i> | <i>liquidus, Er.</i> |
| <i>atomarius, L.</i> | <i>bicolor, F.</i> |
| <i>piceus, Steph.</i> | <i>v. cognatus, Steph.</i> |
| <i>consimilis, Msh.</i> | <i>æneus, F.</i> |
| <i>geminus, Ill.</i> | <i>corticalis, Pz.</i> |
|
Olibrus, Er. |
Phalacrus, Pk. |
| <i>pygmæus, Stm.</i> | <i>caricis, Stm.</i> |
| <i>particeps, Muls.</i> | <i>substriatus, Gyll.</i> |
| <i>Helveticus, Tourn.</i> | <i>brunnipes, Bris.</i> |
| <i>millefolii, Pk.</i> | <i>coruscus, Pk.</i> |

HISTERIDÆ.

- Anterior coxæ transverse.
 Prosternum produced anteriorly (*Histerina*).
 Antennary grooves on the anterior angle of the prothorax.
 Clypeus limited by a line posteriorly *Hister*.
 Clypeus not limited by a line posteriorly.
 Elytra smooth *Heterius*.
 Elytra carinated *Onthophilus*.
 Antennary grooves toward the middle of the propectus.
 Anterior tibiae with a curved spine at the tip.
 Elytra with two or three obsolete striae... *Paromalus*.
 Elytra with many well-marked striae ... *Carcinops*.
 Anterior tibiae without a spine *Dendrophilus*.
 Prosternum not produced anteriorly (*Saprinæ*).
 Antennæ inserted by the side of the front ,... *Saprinus*.
 Antennæ inserted on the front.
 Body cylindrical *Terstrius*.
 Body oval or rounded.
 Prothorax with a lateral groove *Plegaderus*.

| | |
|--|--------------------------------|
| Prothorax without a lateral groove. | |
| Antennary grooves on the sides of the propectus. | |
| Elytra punctate | <i>Gnathoncus.</i> |
| Elytra not punctate | <i>Myrmetes.</i> |
| Antennary grooves median. | |
| Posterior tarsi 4-jointed | <i>Acritus.</i> |
| All the tarsi 5-jointed..... | <i>Abræus.</i> |
| Anterior coxae globose | <i>Murmidius.</i> |
|
Murmidius, Lch. |
Saprinus, Er. |
| <i>Ceuthocerus, Germ.</i> | <i>nitidulus, Pk.</i> |
| <i>ovalis, Beck.</i> | <i>immundus, Gyll.</i> |
| <i>ferrugineus, Lch.</i> | <i>æneus, F.</i> |
| <i>advena, Germ.</i> | <i>virescens, Pk.</i> |
|
Abræus, Lch. | <i>4-striatus, Hoffm.</i> |
| <i>globosus, Hoffm.</i> | <i>maritimus, Steph.</i> |
| <i>granulum, Er.</i> | <i>rugifrons, Pk.</i> |
|
Acritus, Lee. | <i>v. violaceus, Steph.</i> |
| <i>punctum, Aubt.</i> | <i>metallicus, Hbst.</i> |
| <i>nigricornis, Hoffm.</i> |
Dendrophilus, Lch. |
| <i>minutus, Hbst.</i> | <i>punctatus, Hbst.</i> |
|
Onthophilus, Lch. | <i>pygmæus, L.</i> |
| <i>sulcatus, F.</i> | <i>Sheppardi, Curt.</i> |
| <i>striatus, Forst.</i> |
Hetærius, Er. |
|
Plegaderus, Er. | <i>ferrugineus, Ol.</i> |
| <i>dissectus, Er.</i> | <i>sesquicornis, Preys.</i> |
|
Teretrius, Er. |
Paromalus, Er. |
| <i>picipes, F.</i> | <i>parallelopipedus, Hbst.</i> |
|
Myrmetes, Mars. | <i>flavicornis, Hbst.</i> |
| <i>piceus, Pk.</i> |
Carcinops, Mars. |
|
Gnathoncus, Duv. | <i>14-striata, Steph.</i> |
| <i>rotundatus, Ill.</i> | <i>pumilio, Er.</i> |
| <i>punctulatus, Th.</i> | <i>minima, Aubt.</i> |
| |
Hister, L. |
| | <i>Attelabus, Geoff.</i> |
| | <i>4-maculatus, L.</i> |
| | <i>succicola, Th.</i> |

| | |
|------------------------------|-----------------------------|
| unicolor, <i>L.</i> | marginatus, <i>Er.</i> |
| cadaverinus, <i>Hoffm.</i> | stercorarius, <i>Hoffm.</i> |
| merdarius, <i>Hoffm.</i> | sinuatus, <i>Ill.</i> |
| neglectus, <i>Germ.</i> | 4-notatus, <i>Scrib.</i> |
| carbonarius, <i>Ill.</i> | bissexstriatus, <i>F.</i> |
| purpurascens, <i>Hbst.</i> | bimaculatus, <i>L.</i> |
| v. castanipes, <i>Steph.</i> | 12-striatus, <i>Schr.</i> |

SCAPHIDIIDÆ.

| | |
|------------------------|--------------------|
| Antennæ clavate..... | <i>Scaphidium.</i> |
| Antennæ filiform | <i>Scaphisoma.</i> |

| | |
|-------------------------|-------------------------|
| Scaphidium, Ol. | Scaphisoma, Loh. |
| 4-maculatum, <i>Ol.</i> | agaricinum, <i>L.</i> |
| | boleti, <i>Pz.</i> |
| | assimile, <i>Er.</i> |

TRICHOPTERYGIDÆ.

Elytra truncate.

Pronotum constricted behind.

| | |
|--------------------|------------------|
| Elytra long | <i>Micrus.</i> |
| Elytra short | <i>Ptinella.</i> |

Pronotum not constricted behind.

| | |
|------------------------------|----------------------|
| Seven ventral segments | <i>Pteryx.</i> |
| Six ventral segments | <i>Trichopteryx.</i> |

Pronotum contracted behind, not constricted.

| | |
|-------------------|----------------------|
| Elytra long | <i>Microptilium.</i> |
| Elytra short..... | <i>Nephanes.</i> |

Elytra not truncate.

Pronotum very broad at the base..... *Nossidium.*

Pronotum broadest at the middle.

Pronotum at the base lying over the shoulders. *Actidium.*

Pronotum closely applied to the elytra.

Abdomen with six segments

| | |
|-----------------------------------|-------------------|
| Abdomen with six segments | <i>Ptilium.</i> |
| Abdomen with seven segments | <i>Ptenidium.</i> |

Trichopteryx, Kby.Acrotrichis, *Mots.*Actinopteryx, p., *Math.*littoralis, *Tk.*Thomsoni, *Sh.*Poweri, *Math.*ambigua, *Math.*dispar, *Math.*suffocata, *Hal.*Chevrolati, *Allib.*

Waterhousei, *Math.*
fuscula, *Math.*
Guérini, *Allib.*
obsocea, *Woll.*
attenuata, *Gillm.*
seminitens, *Math.*
Montandoni, *Allib.*
Jansoni, *Math.*
longula, *Math.*
Edithia, *Math.*
Kirbyi, *Math.*
bovina, *Mots.*
brevis, *Mots.*
sericeus, *Heer.*
volans, *Mots.*
fascicularis, *Hbst.*
Letitia, *Math.*
Championi, *Math.*
cantiana, *Math.*
lata, *Mots.*
grandicollis, *Man.*
fratercula, *Math.*
anthracina, *Math.*
convexa, *Math.*
atomaria, *De G.*
thoracica, *Walb.*
Saræ, *Math.*
fucicola, *Allib.*
mollis, *Halid.*

Pteryx, *Math.*

suturalis, *Heer.*
mutabilis, *Math.*

Ptinella, *Mots.*
testacea, *Heer.*
Proteus, *Math.*
Maria, *Math.*
denticollis, *Fairm.*
Britannica, *Math.*
aptera, *Guér.*
angustula, *Gillm.*
tenella, *Er.*

Micrus, *Math.*
fliocornis, *Fairm.*

Nephanea, *Th.*
Elachyx, *Math.*
curtus, *Allib.*
Titan, *Newm.*

Microptilium, *Math.*
pulchellum, *Allib.*

Ptilium, *Er.*
Halidayi, *Math.*
foveolatum, *Allib.*
minimum, *Math.*
insigne, *Math.*
myrmecophilum, *Allib.*
exaratum, *Allib.*
Caledonicum, *Sharp.*
marginatum, *Aubé.*
Spencei, *Allib.*
angustatum, *Er.*
rugulosum, *Allib.*
depressum, *Mots.*
brevicolle, *Math.*
Kunzei, *Heer.*
Saxonicum, *Gillm.*
minutissimum, *Ljungk.*
trisulcatum, *Aubé.*

Actidium, *Math.*
coarctatum, *Halid.*
filiforme, *Aubé.*
concolor, *Sharp.*

Ptenidium, *Er.*
Anisarthria, *Steph.*
turgidum, *Th.*
formicetorum, *Krz.*
evanescens, *Msh.*
apicale, *Gillm.*
intermedium, *Wank.*

punctulum, *Steph.*
lævigatum, *Gilm.*
pusillum, *Gyll.*
fuscicorne, *Br.*
picipes, *Math.*

punctatum, *Gyll.*
alutaceum, *Gilm.*
Nossidium, Br.
pilosellum, *Msh.*

CORYLOPHIDÆ.

- Abdomen with three ventral segments..... *Sphaerius.*
 Abdomen with six ventral segments.
 Head concealed by the pronotum.
 Posterior angles of the prothorax prolonged and
 pointed.
 Antennæ 10-jointed *Sericoderus.*
 Antennæ 9-jointed *Corylophus.*
 Posterior angles of the prothorax not prolonged *Sacium.*
 Head exposed *Orthoperus.*

Orthoperus, Steph.
Pitophilus, Heer.
Microsphæra, Redt.
brunnipes, Gyll.
piceus, Steph.
picatus, Msh.
atomus, Gyll.
punctum, Msh.
atomarius, Heer.

Corylophus, Steph.
cassidoides, Msh.
sublævipennis, Duv.

Sericoderus, Steph.
Gryphinus, Redt.
lateralis, Gyll.
Sacium, Lec.
Clypeaster, Redt.
pusillum, Gyll.
Sphaerius, Waltl.
Microsporus, Kolen.
acaroides, Waltl.

(*Sphaerius* is sometimes regarded as a distinct family, or it is placed in *Anisotomidæ*.)

ANISOTOMIDÆ.

- Posterior coxae laminiform, covering the femora.
 Abdomen with six apparent segments *Calyptomerus.*
 Abdomen with five apparent segments *Clambus.*
 Posterior coxae of normal form.
 Body oval or oblong.
 Tarsi 5-jointed.
 Club of the antennæ 3-jointed..... *Triarthron.*
 Club of the antennæ 5-jointed..... *Hydnobius.*

- Tarsi with a varying number of joints.
- Anterior and intermediate tarsi 5-jointed,
posterior 4-jointed.
 - Club of the antennæ 5-jointed, the
second joint distinct *Anisotoma*.
 - Club of the antennæ 5-jointed, the
second joint indistinct *Cyrtusa*.
 - Anterior tarsi 5-jointed, intermediate and
posterior 4-jointed *Colenis*.
 - Anterior tarsi 4-jointed, intermediate and
posterior 3-jointed *Agaricophagus*.
- Body hemispherical.
- Club of the antennæ 5-jointed..... *Liodes*.
 - Club of the antennæ 4-jointed..... *Amphicyllis*.
 - Club of the antennæ 3-jointed..... *Agathidium*.

***Calyptomerus*, Redt.**

- Comazus*, Fairm.
- dubius*, Msh.
- Enshamensis*, Steph.
- Clambus*, Fisch.**
- armadillo*, De G.
- punctulum*, Beck.
- minutus*, Stm.
- pubescens*, Redt.
- coccinelloides*, Steph.

- Agathidium*, Ill.**
- marginatum*, Stm.
- globosum*, Muls.
- convexum*, Sharp.
- rhinoceros*, Sharp.
- nigrinum*, Stm.
- varians*, Beck.
- rotundatum*, L.
- levigatum*, Er.
- seminulum*, L.
- piceum*, Er.
- clypeatum*, Sharp.
- atrum*, Payk.
- nigripenne*, F.

***Amphicyllis*, Er.**

- globus*, F.
- Liodes*, Latr.**
- orbicularis*, Kug.
- glaber*, Kug.
- castaneus*, Hbst.
- humeralis*, Kug.

***Agaricophagus*, Schm.**

- cephalotes*, Schm.

***Colenis*, Er.**

- dentipes*, Gyll.

***Cyrtusa*, Er.**

- minuta*, Ahr.
- pauxilla*, Schm.

***Anisotoma*, Ill.**

- Volvoxis*, Kug.
- parvula*, Sahl.
- similata*, Rye.
- lunicollis*, Rye.
- badia*, Stm.
- litura*, Steph.

| | |
|---------------------------|--------------------------------|
| <i>nigrita</i> , Schm. | <i>oblonga</i> , Er. |
| <i>calcarata</i> , Er. | <i>ferruginea</i> , Ill. |
| <i>ovalis</i> , Schm. | <i>grandis</i> , Fair. |
| <i>ciliaris</i> , Schm. | <i>cinnamomea</i> , Panz. |
| <i>pallens</i> , Stm. | |
| <i>furva</i> , Er. | |
| <i>Silesiaca</i> , Krz. | |
| <i>obesa</i> , Schm. | |
| <i>dubia</i> , Kug. | |
| <i>clavicornis</i> , Rye. | |
| <i>macropus</i> , Rye. | |
| <i>piecea</i> , Ill. | |
| <i>Tripkii</i> , Schm. | |
| <i>rugosa</i> , Steph. | |
| | Hydnobius , Schm. |
| | <i>strigosus</i> , Schm. |
| | <i>punctatus</i> , Stm. |
| | <i>punctatissimus</i> , Steph. |
| | <i>Perrisi</i> , Fair. |
| | |
| | Triarthron , Märk. |
| | Maerkeli , Schm. |

SILPHIDÆ.

| | |
|---|-------------------------------|
| Antennæ 10-jointed | <i>Necrophorus</i> . |
| Antennæ 11-jointed. | |
| Basal joint of the antennæ very large | <i>Sphaerites</i> . |
| Basal joint of the antennæ of the normal size. | |
| Head exserted. | |
| Prothorax broadest at the base | <i>Silpha</i> . |
| Prothorax orbicular | <i>Necrodes</i> . |
| Head ensconced in the prothorax. | |
| With eyes. | |
| Antennæ not longer than the prothorax,
distinctly clavate | <i>Colon</i> . |
| Antennæ longer than the prothorax, indi-
stinctly clavate | <i>Choleva</i> . |
| Without eyes. | |
| Tarsi 5-jointed | <i>Leptinus</i> . |
| Intermediate and posterior tarsi 5-jointed,
anterior 4-jointed | <i>Adelops</i> . |
| Sphaerites , Duf. | |
| <i>glabratus</i> , F. | <i>rufescens</i> , Krz. |
| <i>Colon</i> , Host. | <i>appendiculatum</i> , Sahl. |
| <i>Mylæchus</i> , Latr. | <i>calcaratum</i> , Er. |
| <i>latum</i> , Krz. | <i>Zebei</i> , Krz. |
| <i>brunneum</i> , Latr. | <i>dentipes</i> , Sahl. |
| <i>angulare</i> , Er. | <i>serripes</i> , Sahl. |
| <i>denticulatum</i> , Krz. | <i>puncticolle</i> , Krz. |
| | <i>Viennense</i> , Hbst. |

Choleva, Latr.
 [Catops, Payk.]
Ptomaphagus, Ill.
colonoides, Krz.
anisotomooides, Spence.
sericea, F.
varicornis, Rosenh.
fumata, Spence.
Watsoni, Spence.
Kirbyi, Spence.
tristis, Pz.
longula, Kelln.
chrysomeloides, Pz.
grandicollis, Er.
affinis, Steph.
 nigrita, Er.
morio, F.
nigricans, Spence.
coracinus, Kelln.
fuscus, Pz.
Wilkinii, Spence.
 praecox, Er.
velox, Spence.
agilis, Ill.
Sturmii, Bris.
cisteloides, Fröhl.
angustata, F.
intermedia, Krz.
spadicea, Stm.

Adelops, Tellk.
Wollastoni, Jans.

Leptinus, Müll.
testaceus, Müll.

Silpha, L.
Peltis, Geoff.
Oiceoptoma, p., Lch.
Phosphuga, p., Lch.
Thanatophilus, p., Lch.
Xylodrepa, p., Th.
reticulata, F.
 granulata, Mah.
opaca, L.
atrata, L.
lævigata, F.
dispar, Höst.
sinuata, F.
rugosa, L.
thoracica, L.
nigrita, Crz.
obscura, L.
tristis, Ill.
4-punctata, L.

Necrodes, Lch.
littoralis, L.

Necrophorus, F.
 [Dermeutes, L.]
mortuorum, F.
ruspator, Er.
interruptus, Steph.
 fossor, Er.
vestigator, Herck.
vespillo, L.
humator, F.
Germanicus, L.

SCYDMENIDÆ.

- | | |
|--|--------------------|
| Posterior trochanters elongate..... | <i>Eumiorus.</i> |
| Posterior trochanters short. | |
| Prothorax narrower than the elytra. | |
| Elytra truncate at the apex..... | <i>Euthia.</i> |
| Elytra rounded | <i>Scydmenus.</i> |
| Prothorax broader than the elytra..... | <i>Cephennium.</i> |

| | |
|--------------------------|--------------------------|
| Eumicrus, Lap. | exilis, Er. |
| tarsatus, Müll. | pusillus, Müll. |
| Scydmaenus, Latr. | collaris, Müll. |
| nanus, Schm. | scutellaris, Müll. |
| hirticollis, Ill. | Godarti, Latr. |
| fimetarius, Th. | Euthia, Steph. |
| denticornis, Müll. | scydmænoides, Steph. |
| pumilio, Schm. | Schaumi, Kies. |
| Sparshalli, Denny. | plicata, Gyll. |
| carinatus, Muls. | |
| ? glyptocephalus, Saucy. | Cephaenium, Müll. |
| elongatulus, Müll. | Megaladerus, Steph. |
| rubicundus, Schm. | thoracicum, Müll. |
| angulatus, Müll. | intermedium, Fair. |

PSELAPHIDÆ.

Antennæ 11-jointed.

- Antennæ approximate at the base.
 Last joint of the maxillary palpi ovoid *Pselaphus*.
 Last joint of the maxillary palpi securiform *Tychus*.

Antennæ distant at the base.

Tarsal claws two, unequal.

- Abdomen margined at the sides *Trichonyx*.
 Abdomen not margined at the sides *Batrissus*.

One tarsal claw.

Abdomen with five segments.

- Last joint of the maxillary palpi fusiform ... *Bryaxis*.
 Last joint of the maxillary palpi securiform. *Bythinus*.

Abdomen with six segments.

- Body oblong, convex..... *Trimium*.
 Body elongate, depressed..... *Euplectus*.

Antennæ 6-jointed *Claviger*.**Claviger, Preys.**

- testaceus, Preys.*
foveolatus, Müll.

Trimium, Aubé.

- brevipenne, Chaud.*
brevicornis, Reich.

Euplectus, Lch.

- bicolor, Denny.*
Dennyi, Wat.
nigricans, Chaud.
Karsteni, Reich.
punctatus, Muls.
ambiguus, Reich.

| | |
|---------------------------------------|-------------------------------------|
| <i>minutissimus</i> , <i>Aubé</i> . | <i>assimilis</i> , <i>Curt.</i> |
| <i>sanguineus</i> , <i>Denny</i> . | <i>hæmatica</i> , <i>Reich.</i> |
| <i>nanus</i> , <i>Reich.</i> | <i>simplex</i> , <i>Wat.</i> |
| <i>Kirbyi</i> , <i>Denny</i> . | <i>fossulata</i> , <i>Reich.</i> |
| <i>Duponti</i> , <i>Aubé</i> . | <i>Helferi</i> , <i>Schm.</i> |
| <i>Kunzei</i> , <i>Aubé</i> . | <i>Lefebvrei</i> , <i>Aubé</i> . |
| <i>signatus</i> , <i>Reich</i> . | |
| <i>Easterbrookianus</i> , <i>Lch.</i> | Tychus , <i>Lch.</i> |
| Bythinus , <i>Lch.</i> | <i>niger</i> , <i>Payk.</i> |
| <i>Burrellii</i> , <i>Denny</i> . | ? <i>Ibericus</i> , <i>Crotch.</i> |
| <i>securiger</i> , <i>Reich</i> . | |
| <i>Curtisi</i> , <i>Denny</i> . | Pselaphus , <i>Hbst.</i> |
| <i>glabratus</i> , <i>Rye</i> . | <i>Heisei</i> , <i>Hbst.</i> |
| <i>bulbifer</i> , <i>Reich</i> . | <i>Dresdensis</i> , <i>Hbst.</i> |
| <i>puncticollis</i> , <i>Denny</i> . | |
| Bryaxis , <i>Lch.</i> | Trichonyx , <i>Chaud.</i> |
| <i>sanguinea</i> , <i>L.</i> | <i>Maerkeli</i> , <i>Aubé</i> . |
| <i>longicornis</i> , <i>Lch.</i> | <i>sulcicollis</i> , <i>Reich</i> . |
| <i>impressa</i> , <i>Panz.</i> | |
| <i>juncorum</i> , <i>Lch.</i> | Batriscus , <i>Aubé</i> . |
| | <i>venustus</i> , <i>Reich</i> . |

STAPHYLINIDÆ.

Antennæ inserted between the eyes (*Aleocharinae*).

Tarsi 5-jointed.

Pronotum overlapping the base of the elytra. *Gymnusa*.

Pronotum not overlapping the base of the elytra.

Basal joint of the posterior tarsi longest.

Antennæ gradually thicker towards the apex.

Second joint of the labial palpi shorter than the third.

Labium elongate *Oculea*.

Labium not elongate.

Head constricted behind.

Second joint of the antennæ longer than the third *Calodera*.

Second and third joints of the antennæ equal.

Elytra coarsely punctured..... *Ilyobates*.

- Elytra finely punctured *Chilopora*
- Head not constricted behind.
- Head ensconced in the prothorax *Oxypoda*.
- Head not ensconced in the prothorax.. *Ocyusa*.
- Second and third joints of the labial palpi equal.
- Abdomen parallel at the sides..... *Ischnoglossa*.
- Abdomen narrowing behind *Thiasophila*.
- Antennæ fusiform.**
- Labial palpi 4-jointed *Aleochara*.
- Labial palpi 3-jointed.
- Prothorax broader than the elytra..... *Homoeusa*.
- Prothorax not broader than the elytra ... *Microglotta*.
- Basal joint of the posterior tarsi not longer than the others *Phelopora*.
- Anterior tarsi 4-jointed, the others 5-jointed.
- Anterior and intermediate tibiae spinose *Phytocess*.
- Anterior and intermediate tibiae not spinose.
- Pronotum with a dilated margin.
- Antennæ fusiform *Dinarda*.
- Antennæ filiform *Atemeles*.
- Pronotum without a margin.
- Head pedunculate.
- Labial palpi 2-jointed *Autalia*.
- Labial palpi 3-jointed.
- Third joint of the labial palpi clavate ... *Falagria*.
- Third joint of the labial palpi subulate ... *Borboropora*.
- Head not pedunculate.
- Labial palpi 3-jointed.
- Basal joint of the posterior tarsi longest.
- Labial palpi with the joints unequal and free.
- Antennæ slender *Tachysa*.
- Antennæ robust..... *Bolitochara*.
- Labial palpi with the joints equal, the first two united.
- Posterior legs extending beyond the abdomen *Myrmecodia*.
- Posterior legs not, or scarcely, extending beyond the abdomen *Leptusa*.
- Basal joint of the posterior tarsi not longer than the others.
- Third joint of the maxillary palpi globose..... *Callicerus*.

- Third joint of the maxillary palpi
not globose.
Mandibles entire *Homalota*.
Mandibles bifid *Schistoglossa*.
- Labial palpi 2-jointed.
Eyes obsolete *Actocharis*.
Eyes present.
Joints of the labial palpi free.
Prothorax bisinuate at the base *Placusa*.
Prothorax not bisinuate at the base.
Prothorax broader than the elytra ... *Euryusa*.
Prothorax not broader than the elytra.
Labium entire.
Prothorax broadest at the base..... *Encephalus*.
Prothorax narrower at the base ... *Gyrophana*.
Labium bifid *Agaricochara*.
- Joints of the labial palpi united.
Body glabrous *Silusa*.
Body pubescent..... *Myllena*.
- Tarsi 4-jointed.
Antennæ 11-jointed.
Maxillary palpi elongate *Diglossa*.
Maxillary palpi not elongate *Hygronomia*.
Antennæ 10-jointed *Oligota*.
Tarsi 3-jointed *Dinopsis*.
- Antennæ not inserted between the eyes.
Antennæ inserted on the front.
Antennæ clavate (*Steninae*).
Tarsi 5-jointed.
Abdomen terminated by two setæ *Dianous*.
Abdomen not terminated by two setæ *Stenus*.
Tarsi 4-jointed..... *Evaesthetus*.
- Antennæ robust, not clavate (*Staphylininae*).
Antennæ inserted in the middle of the
clypeus.
Antennæ geniculate.
Last joint of the maxillary palpi subacumi-
nate *Xantholinus*.
Last joint of the maxillary palpi subulate. *Leptacinus*.
Antennæ not geniculate.
Elytra with a deep sutural stria *Baptolinus*.
Elytra without a sutural stria *Othius*.
Antennæ inserted on the anterior margin of
the clypeus.
Last joint of the palpi subulate *Heterothops*.

- Last joint of the palpi not subulate.
 All the palpi filiform.
 Antennæ geniculate *Acylophorus*.
 Antennæ not geniculate.
 Femora and anterior tibiae stout.
 Intermediate coxae contiguous *Ocypus*.
 Intermediate coxae not contiguous.
 Basal joint of the posterior tarsi
 short *Emus*.
 Basal joint of the posterior tarsi
 elongate *Creophilus*.
 Femora and tibiae slender.
 Antennæ filiform.
 Anterior angles of the prothorax
 produced *Leistotrophus*.
 Anterior angles of the prothorax not
 produced *Staphylinus*.
 Antennæ thicker towards the apex.
 Intermediate coxae contiguous *Quedius*.
 Intermediate coxae not contiguous ... *Philonthus*.
 Maxillary palpi only filiform.
 Last joint of the labial palpi securiform . *Euryporus*.
 Last joint of the labial palpi semilunar... *Oxyporus*.
 Antennæ inserted on the sides of the head.
 With ocelli (*Homaliinae*).
 Elytra shorter than the prothorax *Micralymma*.
 Elytra longer than the prothorax.
 Mandibles bidentate.
 Last joint of the labial palpi shorter than
 the preceding one.
 Claws with a membranous appendage at
 their base *Anthophagus*.
 Claws without a membranous appendage . *Geodromicus*.
 Mandibles undentate.
 Last joint of the maxillary palpi very small
 or rudimentary.
 Head subtriangular, as broad as the pro-
 thorax *Coryphium*.
 Head transverse, narrower than the pro-
 thorax *Eudectus*.
 Last joint of the maxillary palpi as long as
 the three preceding together *Lesteva*.

Mandibles without teeth.

Basal joint of the posterior tarsi longer than the second.

Tibiae spined *Acidota*.

Tibiae not spined.

Basal joint of the posterior tarsi sub-
elongate *Arpedium*.

Basal joint of the posterior tarsi very
long *Philorinum*.

Basal and second joints of the posterior
tarsi equal.

Tibiae spined *Deliphrum*.

Tibiae not spined.

Last joint of the maxillary palpi much
longer than the preceding one..... *Olophrum*.

Last joint of the maxillary palpi scarcely
longer than the preceding one..... *Lathromatum*.

Four basal joints of the posterior tarsi
equal.

Basal joints of the posterior tarsi dilated. *Anthobium*.

Basal joints of the posterior tarsi not di-
lated *Homalium*.

Without ocelli.

Posterior coxae conical (*Pæderinae*).

Penultimate joint of the tarsi with a mem-
branous appendage *Sunius*.

Penultimate joint of the tarsi without a
membranous appendage.

Penultimate joint of the tarsi bilobed *Pæderus*.

Penultimate joint of the tarsi not bilobed.

Antennæ geniculate *Cryptobium*.

Antennæ not geniculate.

Head with a thick neck.

Last joint of the posterior tarsi elongate. *Achenium*.

Last joint of the posterior tarsi not
elongate *Lathrobium*.

Head with a very slender neck.

Last joint of the maxillary palpi di-
stinct *Lithocaris*.

Last joint of the maxillary palpi not
distinct.

Head suborbicular *Stilicus*.

Head subtriangular..... *Scopæus*.

- Posterior coxae transverse.
 Anterior coxae conical, exserted.
 Seventh abdominal segment indistinct (or retracted).
 Abdomen conical (*Tachyporus*).
 Tarsi 4-jointed *Hypocyptus*.
 Tarsi 5-jointed.
 Abdomen margined at the sides.
 Antennæ capillary, furnished with long hairs.
 Elytra covering the base of the abdomen *Habrocerus*.
 Elytra not covering the base of the abdomen *Trichophya*.
 Antennæ subfiliform.
 Elytra longer than the head and prothorax together.
 Last joint of the maxillary palpi short *Tachyporus*.
 Last joint of the maxillary palpi long.
 Mesosternum carinated *Cilea*.
 Mesosternum not carinated *Tachinus*.
 Elytra not longer than the head and prothorax together.
 Last joint of the maxillary palpi filiform.
 Anterior tarsi dilated in the male. *Megaoronus*.
 Anterior tarsi not dilated in the male *Bolitobius*.
 Last joint of the maxillary palpi subulate.
 The same joint short *Mycetoporus*.
 The same joint elongate *Bryoporus*.
 Abdomen not margined at the sides ... *Conosoma*.
 Abdomen parallel at the sides (*Phlaecharinae*) *Phlaeocharis*.
 Seventh abdominal segment distinct (*Oxytelinae*).
 Tarsi 3-jointed.
 All the tibiae spinose.
 Tibiae with two rows of spines *Bledius*.
 Tibiae with one row of spines *Platystethus*.
 Anterior tibiae only spinose *Haploderus*.

- Anterior and intermediate tibiae spinose.** *Oxytelus*.
Tibiae not spinose.

 - Elytra obliquely truncate at the sutural angle.** *Thinobius*.
 - Elytra entire.**
 - Scutellum distinct** *Ancyrophorus*.
 - Scutellum not evident** *Trogophanus*.

Tarsi 5-jointed.

 - Anterior tibiae spinose.**
 - Antennæ geniculate** *Acrognathus*.
 - Antennæ not geniculate** *Coprophilus*.
 - Anterior tibiae not spinose.**
 - Head constricted behind the eyes** *Deleaster*.
 - Head not constricted behind the eyes** *Syntomium*.

Anterior coxae not conical nor exserted.

 - Anterior coxa globose (*Piestinæ*)** *Siagonium*.
 - Anterior coxae cylindrical (*Protininae*)**.

Tarsi 5-jointed.

 - With an ocellus** *Phloeobium*.
 - Without an ocellus.**
 - Last three joints of the antennæ enlarged** *Protinus*.
 - Last joint only enlarged** *Megarthrus*.

Tarsi 3-jointed.

 - Antennæ 11-jointed** *Pseudopsis*.
 - Antennæ 9-jointed** *Micropeplus*.

***Micropeplus*, Latr.**

 - porcatus, F.**
 - staphylinoides, Msh.**
 - fulvus, Er.**
 - margarita, Duv.**
 - tesserula, Curt.**
 - affinis, Mill.**
 - sinuatocollis, Kre.**
 - denticollis, Beck.**
 - rufescens, Steph.**
 - hemipterus, Ill.**

***Pseudopsis*, Newm.**

 - sulcata, Newm.**

***Phloeobium*, Er.**

 - clypeatum, Müll.**

***Megarthrus*, Steph.**

 - depressus, Pk.**

***Protinus*, Latr.**

 - ovalis, Steph.**
 - brevicollis, Er.**
 - brachypterus, F.**
 - macropterus, Gyll.**
 - atomarius, Er.**

***Siagonium*, Kby.**

 - Prognatha, Latr.**
 - quadricorne, Kby.**

- Phloeoccharis**, *Man.*
subtilissima, *Man.*
- Anthobium**, *Steph.*
Eusphalerum, p., *Krz.*
torquatum, *Msh.*
mucronatum, *Steph.*
ophthalmicum, *Pk.*
minutum, *F.*
Lapponicum, *Man.*
sorbi, *Gyll.*
primulæ, *Steph.*
- Homalium**, *Gr.*
Acrulia, p., *Th.*
rivulare, *Pk.*
laeviusculum, *Gyll.*
rugulipenne, *Rye.*
riparium, *Th.*
septentrionis, *Th.*
Allardi, *Fair.*
excavatum, *Steph.*
fossulatum, *Er.*
nigriceps, *Kies.*
cæsum, *Gr.*
oxyacanthæ, *Gr.*
exiguum, *Gyll.*
pusillum, *Gr.*
punctipenne, *Th.*
monilicorne, *Gyll.*
planum, *Pk.*
pineti, *Th.*
concinnum, *Msh.*
deplanatum, *Gyll.*
vile, *Er.*
brevicorne, *Er.*
gracilicorne, *Rye.*
gracilicorne, *Fair.*
iopterum, *Steph.*
florale, *Pk.*
salicis, *Gyll.*
pygmæum, *Pk.*
sulculum, *Steph.*
- nigrum*, *Gr.*
striatum, *Gr.*
inflatum, *Gyll.*
- Eudectus**, *Redt.*
Whitei, *Sharp.*
- Coryphium**, *Steph.*
angusticolle, *Steph.*
- Philorinum**, *Krz.*
sordidum, *Steph.*
humile, *Er.*
myops, *Halid.*
- Micralymma**, *Westw.*
brevipenne, *Gyll..*
Johnstoni, *Westw.*
- Arpedium**, *Er.*
brachypterum, *Gr.*
- Acidota**, *Steph.*
crenata, *F.*
cruentata, *Man.*
- Lathrimæum**, *Er.*
melanocephalum, *Ill.*
unicolor, *Msh.*
- Deliphrum**, *Er.*
tectum, *Payk.*
crenatum, *Gr.*
- Olophrum**, *Er.*
piceum, *Gyll.*
fuscum, *Gr.*
consimile, *Gyll.*
- Lesteva**, *Latr.*
pubesceps, *Mars.*

- bicolor, *F.*
monticola, *Kies.*
Sharpii, *Rye.*
punctata, *Er.*
- Geodromicus**, *Redt.*
plagiatus, *Er.*
globulicollis, *Zett.*
nigrita, *Mill.*
- Anthophagus**, *Gr.*
alpinus, *F.*
testaceus, *Gr.*
- Deleaster**, *Er.*
dichrous, *Gr.*
v. adustus, *Küst.*
- Acrognathus**, *Er.*
mandibularis, *Gyll.*
- Coprophilus**, *Latr.*
striatulus, *F.*
- Syntomium**, *Curt.*
seneum, *Müll.*
- Actocharis**, *Sharp.*
Readingi, *Sharp.*
marina, *Fauv.*
- Thinobius**, *Kies.*
major, *Krz.*
linearis, *Krz.*
brunneipennis, *Krz.*
longipennis, *Heer.*
brevipennis, *Kies.*
- Ancyrophorus**, *Krz.*
longipennis, *Fair.*
homalinus, *Er.*
- Trogophloeus**, *Man.*
Carpalimus, *Steph.*
- arcuatus*, *Steph.*
spinicollis, *Rye.*
bilineatus, *Steph.*
riparius, *Lac.*
Erichsoni, *Sharp.*
fuliginosus, *Gr.*
elongatus, *Er.*
corticinus, *Gr.*
foveolatus, *Sahl.*
halophilus, *Kies.*
pusillus, *Gr.*
tenellus, *Gr.*
subtilis, *Er.*
- Haploderus**, *Steph.*
calatus, *Gr.*
- Oxytelus**, *Gr.*
rugosus, *F.*
insectatus, *Gr.*
fulvipes, *Er.*
laqueatus, *Msh.*
piceus, *L.*
sculptus, *Gr.*
maritimus, *Th.*
Perrisi, *Fauv.*
sculpturatus, *Gr.*
inustus, *Gr.*
nitidulus, *Gr.*
complanatus, *Er.*
depressus, *Gr.*
speculifrons, *Krz.*
clypeonitens, *Pand.*
Fairmairei, *Pand.*
- Platystethus**, *Man.*
morsitans, *Pk.*
cornutus, *Gyll.*
capito, *Heer.*
nodifrons, *Sahl.*
nitens, *Sahl.*

Bledius, Man.
taurus, Germ.
v. Ruddii, Steph.
spectabilis, Krz.
bicornis, Germ.
tricornis, Hbst.
unicornis, Germ.
subterraneus, Er.
arenarius, Pk.
fusipes, Rye.
pallipes, Gr.
erraticus, Er.
atricapillus, Germ.
opacus, Brock.
longulus, Er.
crassicollis, Lac.
fracticornis, Pk.
femoralis, Gyll.

Oxyporus, F.
rufus, L.

Evaesthetus, Gr.
scaber, Gr.
ruficapillus, Lac.
leviusculus, Man.

Stenus, Latr.
biguttatus, L.
bipunctatus, Er.
guttula, Müll.
bimaculatus, Steph.
Juno, F.
boope, Gr.
asphaltinus, Er.
ater, Mann.
longitarsis, Th.
incrassetus, Er.
bupthalmus, Gr.
ruralis, Er.
♀ Shepherdi, Crotch.
melanarius, Steph.
cinerascens, Er.

morio, Gr.
atratus, Er.
incanus, Er.
melanopus, Msh.
canaliculatus, Gyll.
nitens, Steph.
semulus, Er.
pusillus, Steph.
exiguus, Er.
scrutator, Er.
speculator, Lac.
boops, Gyll.
providus, Er.
Rogerii, Krz.
Guynemerii, Duv.
lustrator, Er.
proditor, Er.
carbonarius, Gyll.
opacus, Gr.
Argus, Gr.
submarginalis, Steph.
vafellus, Er.
fusipes, Gr.
circularis, Gr.
nanus, Steph.
declaratus, Er.
crassus, Steph.
crassiventris, Th.
v. littoralis, Th.
opticus, Gr.
nigritulus, Gyll.
unicolor, Steph.
brunnipes, Steph.
unicolor, Er.
binotatus, Ljung.
pubescens, Steph.
pallitarsis, Steph.
plantaris, Er.
major, Muls.
bifoveolatus, Gyll.
plancus, Er.
foveicollis, Krz.
bifoveolatus, Er.
brevicollis, Th.

picipennis, Er.
picipes, Steph.
rusticus, Er.
nitidiusculus, Steph.
tempestivus, Er.
gonymelas, Steph.
subæneus, Er.
ossum, Steph.
impressipennis, Duv.
geniculatus, Gr.
palustris, Er.
glacialis, Heer.
impressus, Germ.
aceris, Steph.
annulatus, Crotch.
Erichsoni, Rye.
fuscicornis, Er.
pallipes, Gr.
flavipes, Steph.
flum, Er.
Kiesenwetteri, Rosenh.
eicindeloides, Schal.
solutus, Er.
oculatus, Gr.
similia, Host.
tarsalis, Ljung.
flavitarsis, Steph.
fulvicornis, Steph.
paganus, Er.
latifrons, Er.
oscillator, Rye.
fornicatus, Steph.
contractus, Er.

Dianous, Lch.
cærulescens, Gyll.

Pæderus, F.
littoralis, Grav.
riparius, L.
fuscipes, Curt.
longipennis, Er.
caligatus, Er.

Sunius, Steph.
filiformis, Latr.
diversus, Aubé.
immaculatus, Steph.
intermedius, Er.
angustatus, Payk.

Stilicus, Latr.
Rugilus, Curt.
fragilis, Grav.
orbiculatus, Payk.
affinis, Er.
geniculatus, Er.
punctipennis, Steph.
similia, Er.
rufipes, Germ.
subtilis, Er.

Scopaeus, Er.
Erichsoni, Kol.
levigatus, Heer.
sulcicollis, Steph.
minutus, Er.
Ryei, Woll.

Lithocharis, Lac.
Medon, Steph.
castanea, Gr.
Buddii, Steph.
fuscula, Man.
diluta, Er.
ripicola, Krz.
apicalis, Krz.
ochracea, Gr.
obsoleta, Nord.
procofera, Peyron.
maritima, Aubé.
propinqua, Bris.
melanocephala, F.
tricolor, Msh.

Cryptobium, Man.
fracticorne, Payk.

Achenium, Curt.

depressum, *Gr.*
humile, *Nic.*
 depressum, *Curt.*

Lathrobium, Gr.

brunnipes, *F.*
elongatum, *L.*
geminum, *Krz.*
boreale, *Hoch.*
fulvipenne, *Gr.*
rufipenne, *Gyll.*
filiforme, *Gr.*
longulum, *Gr.*
multipunctatum, *Gr.*
angustatum, *Lac.*
quadratum, *Payk.*
terminatum, *Gr.*
atripalpe, *Scrb.*
fovulum, *Steph.*
 punctatum, *Zett.*
pallidum, *Nord.*
v. Jansoni, *Crotch.*
angusticolle, *Lac.*
carinatum, *Bold.*

Othius, Steph.

fulvipennis, *F.*
læviusculus, *Steph.*
 punctipennis, *Lac.*
melanocephalus, *Gr.*
 6-punctatus, *Halid.*
myrmecophilus, *Kies.*

Baptolinus, Krz.

alternans, *Gr.*

Leptacinus, Er.

parumpunctatus, *Gyll.*
batychrus, *Gyll.*
 linearis, *Gr.*
formicetorum, *Merk.*

Xantholinus, Serv.

Gyrohypnus, *Steph.*
Vulda, p., *Dav.*
glabratus, *Gr.*
rotundicollis, *Steph.*
 ? glaber, *Nord.*
punctulatus, *Payk.*
ochraceus, *Gyll.*
atratus, *Heer.*
tricolor, *F.*
v. distans, *Muls.*
linearis, *Ol.*
longiventris, *Heer.*
fulgidus, *F.*
lentus, *Gr.*

Philonthus, Curt.

Cafius, p., *Steph.*
Bisnius, p., *Steph.*
Gabrius, p., *Steph.*
Actobius, p., *Fauv.*

splendens, *F.*

intermedius, *Lac.*

proximus, *Krz.*

 succicola, *Th.*

seneus, *Rossi.*

addendus, *Sharp.*

 temporalis, *Muls.*

punctiventris, *Krz.*

carbonarius, *Gyll.*

laminatus, *Crtz.*

rotundicollis, *Mén.*

 scutatus, *Er.*

atratus, *Gr.*

marginatus, *F.*

varius, *Gyll.*

albipes, *Gr.*

sordidus, *Gr.*

punctus, *Gr.*

puella, *Nord.*

cephalotes, *Gr.*

nigiventris, *Th.*

umbratilis, *Gr.*

fuscus, Gr.
sanguinolentus, Gr.
fumigatus, Er.
ventralis, Gr.
debilis, Gr.
discoideus, Gr.
vernalis, Gr.
ebeninus, Gr.
v. coruscus, Gr.
corvinus, Gr.
quisquiliarius, Gyll.
v. inquinatus, Steph.
splendidulus, Gr.
fimetarius, Gr.
nigritulus, Gr.
trossulus, Nord.
thermarum, Aub.
decorus, Gr.
politus, L.
luceens, Man.
lepidus, Gr.
pullus, Nord.
bipustulatus, Pz.
longicornis, Steph.
scybalarius, Nord.
varians, Pk.
v. unicolor, Steph.
agilis, Gr.
fumarius, Gr.
nigrita, Nord.
micans, Gr.
fulvipes, F.
v. rubripennis, Steph.
vernalis, Gr.
cinerascens, Gr.
signaticornis, Muls.
villosulus, Steph.
procerulus, Gr.
prolixus, Er.
cicatricosus, Er.
fucicola, Curt.
xantholoma, Gr.
v. variolosus, Sharp.
sericeus, Holme.

Ocypus, Steph.
Goërius, p., Steph.
Tasgius, p., Steph.
olens, Mill.
cyaneus, Pk.
brunnipes, F.
similis, F.
fuscatus, Gr.
cupreus, Ross.
pedator, Gr.
ater, Gr.
morio, Gr.
compressus, Msh.
cerdo, Er.

Staphylinus, L.

Forficula, p., L.

pubescens, De G.
fulvipes, Scop.
stercorarius, Ol.
latebricola, Gr.
erythropterus, L.
cesareus, Cederk.

Leistotrophus, Perty.

Trichoderra, Steph.

murinus, L.
nebulosus, F.

Eimus, Curt.

hirtus, L.
v. ciliaris, Steph.

Creophilus, Man.

maxillosus, L.

Quedius, Steph.

Velleius, p., Man.

dilatatus, F.
brevis, Er.
lateralis, Gr.
puncticollis, Th.
fulgidus, Gr.

mesomelinus, *Msh.*
variabilis, *Gyll.*
entralis, *Arag.*
truncicola, *Fair.*
cruentus, *Ol.*
xanthopus, *Er.*
scitus, *Gr.*
levigatus, *Gyll.*
impressus, *Pz.*
tristis, *Gr.*
fuliginosus, *Gr.*
molochinus, *Gr.*
picipes, *Mann.*
umbrinus, *Er.*
nigriceps, *Krz.*
ruficeps, *Steph.*
fumatus, *Steph.*
peltatus, *Er.*
humeralis, *Steph.*
suturalis, *Kies.*
limbatus, *Heer.*
maurorufus, *Er.*
maurorufus, *Gr.*
scintillans, *Gr.*
fuscipes, *Steph.*
auricomus, *Kies.*
microps, *Gr.*
chrysurus, *Kies.*
rufipes, *Gr.*
semiobcurus, *Msh.*
semisaneus, *Steph.*
attenuatus, *Gyll.*
fulvicollis, *Steph.*
boops, *Gr.*

Heterothops, *Steph.*
prævia, *Er.*
binotata, *Er.*
4-punctula, *Gyll.*
dissimilis, *Gr.*

Euryporus, *Er.*
ptipes, *Pk.*

Acylophorus, *Nord.*
glabriocollis, *Gr.*

Mycetoporus, *Mann.*
Ischnosoma, *Steph.*
splendidus, *Gr.*
longicornis, *Mäkl.*
rufescens, *Steph.*
lucidus, *Er.*
punctus, *Gyll.*
brunneus, *Msh.*
nanus, *Gr.*
longulus, *Man.*
lepidus, *Gr.*
angularis, *Muls.*
Reyi, *Pand.*
splendens, *Msh.*
clavicornis, *Steph.*

Bryoporus, *Krz.*
cernuus, *Gr.*
rugipennis, *Pand.*
castaneus, *Hardy.*
Hardyi, *Crotch.*

Megacronus, *Steph.*
cingulatus, *Man.*
analis, *Pk.*
inclinans, *Gr.*
formosus, *Gr.*

Bolitobius, *Steph.*
atricapillus, *F.*
trinotatus, *Er.*
apicalis, *Steph.*
exoletus, *Er.*
pygmæus, *F.*
v. biguttatus, *Steph.*

Conosoma, *Kre.*
Conurus, *Steph.*
pubescens, *Pk.*

v. immaculatum, *Steph.*
pedicularium, *Gr.*
lividum, *Er.*
littorum, *L.*
bipunctatum, *Gr.*

Tachyporus, *Gr.*
Lamprinus, p., *Heer.*
obtusus, *L.*
nitidicollis, *Steph.*
? ruficollis, *Gr.*
formosus, *Math.*
solutus, *Er.*
chrysomelinus, *L.*
hypnorum, *F.*
tersus, *Er.*
atriiceps, *Steph.*
humerosus, *Er.*
transversalis, *Er.*
pusillus, *Gr.*
brunneus, *F.*
saginatus, *Gr.*

Tachinus, *Gr.*
humeralis, *Gr.*
proximus, *Krs.*
frigidus, *Er.*
flavipes, *F.*
rufipes, *De G.*
rufipennis, *Gyll.*
pallipes, *Gr.*
scapularis, *Steph.*
bipustulatus, *F.*
subterraneus, *L.*
v. pallens, *Steph.*
marginellus, *F.*
laticollis, *Gr.*
collaris, *Gr.*
elongatus, *Gyll.*

Cilea, *Duv.*
Leucoparyphus, *Krs.*
silphoides, *L.*

Habrocerus, *Er.*
capillaricornis, *Gr.*
Trichophya, *Mann.*
pilicornis, *Gyll.*
Hypocyptus, *Mann.*
Cypha, *Steph.*
longicornis, *Pk.*
apicalis, *Bris.*
seminulum, *Er.*
pulicarius, *Er.*
pygmaeus, *Krs.*
discoideus, *Er.*
laeviusculus, *Man.*
anisotomoides, *Steph.*

Dinopsis, *Math.*
erosa, *Steph.*
fuscata, *Math.*
laticollis, *Er.*

Gymnusa, *Er.*
brevicollis, *Pk.*
variegata, *Kies.*

Myllsena, *Er.*
Centroglossa, *Math.*
dubia, *Gr.*
intermedia, *Er.*
gracilicornis, *Fair.*
glauea, *Rye.*
Kraatzii, *Sharp.*
brevicornis, *Math.*
gracilis, *Heer.*
minuta, *Gr.*
elongata, *Math.*
glauea, *Aubé.*

Diglossa, *Halid.*
mersa, *Halid.*
submarina, *Fair.*

- Agaricocchara, Krz.**
- levicollis, Krz.*
- Gyrophsena, Man.**
- pulchella, Heer.*
- affinis, Sahl.*
- Poweri, Crotch.**
- puncticollis, Th.*
- gentilis, Er.*
- nana, Pk.*
- lævipennis, Krz.*
- lucidula, Er.*
- fasciata, Msh.*
- congrua, Er.*
- minima, Er.*
- manca, Er.*
- strictula, Er.*
- Encephalus, Westw.**
- complicans, Westw.*
- Oligota, Man.**
- Somatium, Woll.*
- pusillima, Gr.*
- atomaria, Er.*
- parva, Krz.*
- inflata, Mann.*
- punctulata, Heer.*
- ruficornis, Sharp.*
- apicata, Er.*
- granaria, Er.*
- flavicornis, Lac.*
- Schistoglossa, Krz.**
- viduata, Er.*
- Hygronoma, Er.**
- dimidiata, Gr.*
- Phloeopora, Er.**
- reptans, Gr.*
- corticalis, Gr.*
- Placusa, Er.**
- Cyphea, Fauvel.**
- pumilio, Er.**
- infima, Er.**
- denticulata, Sharp.**
- Homalota, Man.**
- segra, Heer.*
- sencicollis, Sharp.*
- sequata, Er.*
- algæ, Hardy.*
- amicula, Steph.*
- sericea, Muls.*
- analisa, Gr.*
- anceps, Er.*
- angusticollis, Th.*
- ravilla, Krz.*
- angustula, Gyll.*
- aquatica, Th.*
- subenea, Sharp.*
- aterrima, Gr.*
- atomaria, Krz.*
- stramentaria, Gyll.*
- atricilla, Er.*
- Aubei, Bris.*
- autumnalis, Er.*
- bolitobia, Th.*
- ? nigritula, Steph.*
- brunnea, F.*
- depressa, Gyll.*
- cadaverina, Bris.*
- cerulea, Sahl.*
- Cambrica, Woll.*
- velox, Krz.*
- canescens, Sharp.*
- castanipes, Steph.*
- subinuata, Er.*
- cavifrons, Sharp.*
- celata, Er.*
- Germana, Sharp.*
- cinnamomea, Gr.*
- cinnamoptera, Th.*
- circellaris, Gr.*

- clavipes, *Sharp.*
 confusa, *Märk.*
 coriaria, *Krz.*
 crassicornis, *Gyll.*
 cribrata, *Krz.*
 cribriope, *Sharp.*
 cuspidata, *Er.*
 currax, *Krz.*
 curtipennis, *Sharp.*
 debilis, *Er.*
 decipiens, *Sharp.*
 deformis, *Krz.*
 delicatula, *Sharp.*
 dilaticornis, *Krz.*
 divisa, *Märk.*
 egregia, *Rye.*
 Eichoffi, *Schr.*
 elegantula, *Bris.*
 elongatula, *Gr.*
 microcephala, *Steph.*
 eremita, *Rye.*
 euryptera, *Steph.*
 succicola, *Th.*
 exarata, *Sharp.*
 excellens, *Krz.*
 exilis, *Er.*
 eximia, *Sharp.*
 fallaciosa, *Sharp.*
 fallax, *Krz.*
 flavipes, *Gr.*
 fragilis, *Krz.*
 fragilicornis, *Krz.*
 fungi, *Gr.*
 clientula, *Er.*
 fusca, *Sahl.*
 laticollis, *Steph.*
 fuscofemorata, *Wat.*
 gagatina, *Baudi.*
 variabilis, *Krz.*
 gemina, *Er.*
 graminicola, *Gr.*
 gregaria, *Er.*
 Gyllenhalii, *Th.*
 Londinensis, *Sharp.*
- halobretha, *Sharp.*
 hepatica, *Er.*
 hospita, *Märk.*
 hybrida, *Sharp.*
 hygrobria, *Th.*
 hygrotopora, *Krz.*
 imbecilla, *Wat.*
 immersa, *Er.*
 incana, *Er.*
 incognita, *Sharp.*
 inconspicua, *Er.*
 indubia, *Sharp.*
 inquinula, *Er.*
 insecta, *Th.*
 intermedia, *Th.*
 labilis, *Er.*
 levana, *Muls.*
 setigera, *Sharp.*
 languida, *Er.*
 lepida, *Krz.*
 corvina, *Th.*
 linearis, *Gr.*
 littorea, *Sharp.*
 liturata, *Steph.*
 nigritula, *Gyll.*
 livipes, *Steph.*
 longicornis, *Gr.*
 longula, *Heer.*
 luridipennis, *Man.*
 luteipes, *Er.*
 macrocera, *Th.*
 marcida, *Er.*
 maritima, *Wat.*
 monticola, *Th.*
 montivagans, *Woll.*
 mortuorum, *Th.*
 atricolor, *Sharp.*
 nigella, *Er.*
 nigra, *Krz.*
 nigricornis, *Steph.*
 fungicola, *Krz.*
 nitidula, *Krz.*
 v. nitidiuscula, *Sharp.*
 notha, *Er.*

- oblita, *Er.*
 oblonga, *Er.*
 oblongiuscula, *Sharp.*
 occulta, *Er.*
 fungivora, *Th.*
 orbata, *Er.*
 orphana, *Er.*
 pagana, *Er.*
 pallens, *Redt.*
 palleola, *Er.*
 palustris, *Kies.*
 parva, *Sahl.*
 peregrina, *Sharp.*
 ? atomaria, *Th.*
 picipes, *Steph.*
 muscorum, *Bris.*
 pilicornis, *Th.*
 pilosiventris, *Th.*
 plana, *Gyll.*
 planifrons, *Wat.*
 plumbea, *Wat.*
 princeps, *Sharp.*
 pubescens, *Heer.*
 puberula, *Sharp.*
 puncticeps, *Th.*
 ? algæ, *Hardy.*
 pygmaea, *Gr.*
 ravilla, *Er.*
 rufotestacea, *Krz.*
 scapularis, *Sahl.*
 Sharpii, *Rye.*
 silvicola, *Fuss.*
 splendens, *Krz.*
 simillima, *Sharp.*
 sodalis, *Er.*
 sordida, *Msh.*
 melanaria, *Sahl.*
 sordidula, *Er.*
 soror, *Krz.*
 subglabra, *Sharp.*
 subterranea, *Muls.*
 subtilis, *Scr.*
 indiscreta, *Sharp.*
 subtilissima, *Krz.*
- sulcifrons, *Steph.*
 pavens, *Er.*
 talpa, *Heer.*
 parallelia, *Man.*
 tenera, *Sahl.*
 testudinea, *Er.*
 testaceipes, *Heer.*
 Saundersii, *Rye.*
 Thomsoni, *Janson.*
 nigricornis, *Th.*
 tibialis, *Heer.*
 triangulum, *Krz.*
 trinotata, *Krz.*
 testaceipes, *Steph.*
 diversa, *Sharp.*
 valida, *Krz.*
 validiuscula, *Krz.*
 vestita, *Er.*
 elongatula, *Steph.*
 vicina, *Krz.*
 hodierna, *Sharp.*
 vilis, *Er.*
 villosula, *Krz.*
 volans, *Scrb.*
 xanthoptera, *Steph.*
 xanthopus, *Th.*

Oxypoda, *Man.*

- ruficornis, *Gyll.*
 v. spectabilis, *Märk.*
 lividipennis, *Man.*
 vittata, *Märk.*
 longipes, *Muls.*
 lentula, *Er.*
 nigrina, *Wat.*
 umbrata, *Gyll.*
 brevicornis, *Steph.*
 opaca, *Gr.*
 longiuscula, *Gr.*
 pectica, *Sharp.*
 exigua, *Er.*
 rugulosa, *Krz.*
 mutata, *Sharp.*

soror, *Th.*
 alternans, *Gr.*
 exoleta, *Er.*
 rupicola, *Rye.*
Edinensis, *Sharp.*
vereunda, *Sharp.*
tarda, *Sharp.*
incrassata, *Muls.*
 aterrima, *Wat.*
recondita, *Krs.*
formicetica, *Märk.*
hæmorrhœa, *Sahl.*
nigrofusca, *Wat.*
amena, *Fair.*
Waterhousei, *Rye.*
annularis, *Sahl.*
v. pallidula, *Sahl.*
brachyptera, *Steph.*
misella, *Krz.*

Ocyusa, *Krs.*
maura, *Er.*
picina, *Aubt.*

Tachyusa, *Er.*
Myrmecopora, p., *Saulcy*.
constricta, *Er.*
coarctata, *Er.*
scitula, *Er.*
flavitorsia, *Sahl.*
umbratica, *Er.*
atra, *Gr.*
concolor, *Er.*
uvida, *Er.*
sulecta, *Kies.*

Chilopora, *Krs.*
longitarsis, *Er.*
rubicunda, *Er.*

Calodera, *Mann.*
nigrita, *Mann.*

rubens, *Er.*
riparia, *Er.*
sthiopa, *Gr.*
umbrosa, *Er.*

Callicerus, *Gr.*
Semiris, *Heer.*

rigidicornis, *Er.*
obscurus, *Gr.*
♀ hybridus, *Curt.*

Ilyobates, *Krs.*

nigricollis, *Pk.*
propinquus, *Aubt.*
forticornis, *Lac.*
glabriventris, *Rye.*
 ? *Bonnairei*, *Fauv.*

Myrmeconia, *Er.*
Zyras, p., *Steph.*
Drusilla, *Lac.*

Haworthii, *Steph.*
collaris, *Pk.*
humeralis, *Gr.*
cognata, *Märk.*
funesta, *Gr.*
limbata, *Pk.*
lugens, *Gr.*
laticollis, *Märk.*
plicata, *Er.*
canaliculata, *F.*

Dinarda, *Lac.*
Lomechussa, p., *Gr.*

Maerkelii, *Kies.*
dentata, *Gr.*

Atemeles, *Steph.*
Lomechussa, p., *Gr.*

emarginatus, *Gr.*
paradoxus, *Gr.*

- Aleochara, Gr.**
Polystoma, Steph.
Ceranota, Steph.
- ruficornis, *Gr.*
Daltoni, Steph.
- fuscipes, *Gr.*
lata, Gr.
- brevipennis, *Er.*
- bipunctata, *Ol.*
- morion, *Gr.*
- tristis, *Gr.*
- maculata, *Bris.*
- cunicularum, *Krz.*
- lanuginosa, *Gr.*
- lygaea, *Krz.*
- myctophaga, *Krz.*
- mœrens, *Gyll.*
- mœsta, *Gr.*
- inconspicua, *Aubé.*
- bilineata, *Gr.*
- nitida, *Gr.*
- Hibernica, *Rye.*
- lugubris, *Aubé.*
- fungivora, *Sharp.*
- procera, *Er.*
- spadicea, *Er.*
- algarum, *Fauv.*
- Kirbyi, *Steph.*
grisea, Krz.
- obscurella, *Gr.*
- Microglotta, Krz.**
Haploglossa, Krz.
Microglossa, Krz.
Crataræa, Th.
- gentilis, *Märk.*
- pulla, *Gyll.*
- nidicola, *Fair.*
- marginalis, *Gyll.*
- suturalis, *Man.*
- Homoeusa, Krz.**
acuminata, Märk.
- Euryusa, Er.**
laticollis, Heer.
- Thiasophila, Krz.**
angulata, Er.
inquilina, Märk.
- Leptusa, Krz.**
analis, Gyll.
fumida, Er.
ruficollis, Er.
- Ischnoglossa, Krz.**
prolixa, Gr.
corticalis, Steph.
rufo-picea, Krz.
corticina, Er.
- Ocalea, Er.**
picata, Steph.
castanea, Er.
latipennia, Sharp.
badia, Er.
- Silusa, Er.**
rubiginosa, Er.
- Phytosus, Curt.**
spinifer, Curt.
nigriventris, Chev.
♂ spinifer, Curt.
Balticus, Krz.
- Bolitochara, Mann.**
lucida, Gr.
lunulata, Pk.
bella, Märk.
obliqua, Er.
- Falagria, Steph.**
thoracica, Curt.
sulcata, Pk.

sulcata, Gr.

obscura, Gr.

Borbotopora, Krs.

Kraatzi, Fuss.

Autalia, Steph.

impressa, Ol.

rivularis, Gr.

puncticollis, Sharp.

SPHÉRIDIIDÆ.

Pro- and mesosterna narrow.

Meso- and metasterna keeled *Cyclonotum.*

Meso- and metasterna not keeled.

Antennæ 8-jointed *Sphéridium.*

Antennæ 9-jointed *Cercyon.*

Pro- and mesosterna very broad.

Anterior tibiae emarginate externally *Megasternum.*

Anterior tibiae not emarginate externally *Cryptopleurum.*

Cryptopleurum, Muls.

atomarium, F.

Megasternum, Muls.

obscurum, Msh.

bolitophagum, Er.

Cercyon, Lch.

obsoletus, Gyll.

haemorrhoidalis, F.

haemorrhous, Gyll.

lateralis, Msh.

aquaticus, Lap.

flavipes, F.

palustris, Th.

littoralis, Gyll.

depressus, Steph.

unipunctatus, L.

quisquilius, L.

melanocephalus, L.

pygmæus, Ill.

terminatus, Msh.

nigriceps, Msh.

centrimaculatus, St.

minutus, F.

lugubris, Pk.

analis, Pk.

granarius, Er.

Sphéridium, F.

scarabæoides, L.

v. Daltoni, Steph.

bipustulatum, F.

v. marginatum, F.

v. 4-maculatum, Msh.

Cyclonotum, Er.

orbiculare, F.

HYDROPHILIDÆ.

Intermediate and posterior tarsi compressed, ciliated internally.

Prosternum keeled *Hydrous.*

Prosternum not keeled *Hydrophilus.*

- Intermediate and posterior tarsi not compressed nor ciliated.
- Antennæ 6-jointed *Spercheus*.
 Antennæ more than 6-jointed.
 Second joint of the posterior tarsi longest.
 Abdomen with four segments *Chatarthria*.
 Abdomen with five segments.
 Antennæ 9-jointed.
 Last joint of the maxillary palpi longer than the preceding *Hydrobius*.
 Last joint of the maxillary palpi shorter than the preceding.
 Mesosternum unituberculate *Helochares*.
 Mesosternum without a tubercle *Philhydrus*.
 Antennæ 8-jointed *Laccobius*.
 Antennæ 7-jointed *Berosus*.
 Abdomen with seven segments *Limnebius*.
 Last joint of the posterior tarsi longest.
 Abdomen with five segments.
 Prothorax transverse *Helophorus*.
 Prothorax oblong *Hydrochus*.
 Abdomen with six segments.
 Labium deeply emarginate *Hydræna*.
 Labium entire *Ochthebius*.

Hydræna, Kug.

- testacea, *Curt.*
 palustris, *Er.*
 riparia, *Kug.*
 nigrita, *Germ.*
 rufipes, *Curt.*
 angustata, *Stm.*
 gracilis, *Germ.*
 atricapilla, *Wat.*
 pulchella, *Germ.*
 pygmæa, *Wat.*
- pygmæus, *F.*
 bicolor, *Germ.*
 rufomarginatus, *Er.*
 exaratus, *Muls.*
 seratus, *Steph.*
 punctatus, *Steph.*

Hydrochus, Germ.

- elongatus, *Schal.*
 carinatus, *Germ.*
 brevis, *Hbst.*
 angustatus, *Germ.*

Ochthebius, Lch.

- exsculptus, *Germ.*
 inargipallens, *Latr.*
 Poweri, *Rye.*
 æneus, *Steph.*
 marinus, *Pk.*
- rugosus, *Ol.*
 nubilus, *F.*
 tuberculatus, *Gyll.*
 intermedius, *Muls.*

Mulsanti, Rye.
aquaticus, L.
Avernicus, Muls.
granularis, L.
v. viridicollis, Steph.
griseus, Hbst.
seneipennis, Th.
strigifrons, Th.
planicollis, Sharp.
dorsalis, Msh.
nanus, Stm.

Spercheus, Kug.
emarginatus, Schal.

Chætarthria, Steph.
Cyllidium, Er.
seminulum, Pk.

Limnebius, Lch.
truncatellus, Thun.
papposus, Muls.
nitidus, Msh.
picinus, Msh.
atomus, Duf.

Berosus, Lch.
spinulosus, Stev.
sericeps, Curt.
signaticollis, Sharp.
luridus, L.
affinis, Brul.

Laccobius, Er.
nigriceps, Th.
minutus, L.
Helochares, Muls.
lividus, Foret.
v. punctatus, Sharp.
Philhydrus, Sol.
testaceus, F.
melanocephalus, Ol.
ovalis, Th.
nigricans, Zett.
maritimus, Th.
marginellus, F.

Hydrobius, Lch.
Enochrus, p., Th.
Paracymus, p., Th.
oblongus, Hbst.
fuscipes, L.
bicolor, Pk.
seneus, Germ.
limbatus, F.
variabilis, Sharp.
bipustulatus, Msh.

Hydrous, Brul.
Hydrochares, Latr.
caraboides, L.
Hydrophilus, Geoff.
piceus, L.

GYRINIDÆ.

Last segment of the abdomen rounded *Gyrinus.*
 Last segment of the abdomen conical *Orectochilus.*

Gyrinus, Geoff.
urinator, Ill.
lineatus, Steph.
natator, L.
v. substriatus, Steph.
minutus, F.

| | |
|--------------------------|---------------------------|
| bicolor, <i>Pk.</i> | marinus, <i>Gyll.</i> |
| Caspicus, <i>Mén.</i> | opacus, <i>Sahl.</i> |
| distinctus, <i>Aubt.</i> | Orectochilus, <i>Lac.</i> |
| columbus, <i>Er.</i> | villosus, <i>Müll.</i> |
| Suffriani, <i>Schr.</i> | |

DTYSCIDÆ.

Posterior coxae enlarged anteriorly (*Dytiscinae*).

Tarsi 5-jointed.

Anterior tarsi dilated in the males.

Dilated joints patelliform.

Posterior tarsi with two claws.

Claws equal *Dyticus*.

Claws unequal.

Elytra smooth in both sexes *Hydaticus*.

Elytra sulcate and hairy in the female. *Acilius*.

Posterior tarsi with one claw *Cybister*.

Dilated joints of the anterior tarsi not patelliform.

With a scutellum.

Claws of the posterior tarsi equal *Agabus*.

Claws of the posterior tarsi unequal.

Last two joints of the labial palpi

equal *Ilybius*.

Last two joints of the labial palpi

unequal *Colymbetes*.

Without a scutellum.

Antennæ short, fusiform *Noterus*.

Antennæ slender, setaceous *Laccophilus*.

Intermediate and posterior tarsi 4-jointed.

Claws of the posterior tarsi equal *Hydroporus*.

Claws of the posterior tarsi unequal *Hyphydrus*.

Posterior coxae not enlarged anteriorly.

Posterior coxae laminiform, covering part of the abdomen (*Haliplinea*).

Last joint of the maxillary palpi small, subulate.

Prothorax gradually narrowed anteriorly ... *Haliphus*.

Prothorax not narrowed anteriorly (subquadrate) *Brychius*.

Last joint of the maxillary palpi elongate *Cnemidotus*.

Posterior coxae not laminiform (*Pelobiinae*) *Pelobius*.

Hydaticus, Lch.

cinereus, L.
seminiger, De G.
Hübneri, F.
transversalis, Berg.

Acilius, Lch.

sulcatus, L.
v. Scoticus, Steph.
fasciatus, De G.
canaliculatus, Nic.

Dytiscus, L.

Dyticus, Geoff.

marginalis, L.
circumcinctus, Ahr.
circumflexus, F.
Lapponicus, Gyll.
punctulatus, F.
dimidiatus, Berg.

Cybister, Curt.

[*Trogus, Lch.*]

Roseli, F.

Agabus, Lch.

Liopterus, p., Esch.
maculatus, L.
femoralis, Pk.
abbreviatus, F.
undulatus, Hbst.
unguicularis, Th.
didymus, Ol.
vitreus, Pk.
brunneus, F.
arcticus, Pk.
Sturmii, Gyll.
elongatus, Gyll.
nebulosus, Forst.
bipunctatus, F.
conspersus, Msh.
uliginosus, L.

paludosus, F.

congener, Pk.

affinis, Pk.

guttatus, Pk.

fenestratus, Ps.

nitidus, F.

fontinalis, Steph.

striolatus, Gyll.

tarsatus, Zett.

Solieri, Aubé.

bipustulatus, L.

chalconotus, Pz.

nigro-seneus, Msh.

agilis, Fab.

Ilybius, Er.

fenestratus, F.
subæneus, Er.
fuliginosus, F.
ater, De G.
fenestratus, Pk.
obscurus, Msh.
4-guttatus, Er.
guttiger, Gyll.
angustior, Gyll.

Colymbetes, Clair

Rhantus, p., Lac.

fuscus, L.

pulverosus, Steph.

conspersus, Gyll.

notatus, F.

bistriatus, Berg.

agilis, Pk.

adspersus, F.

exoletus, Forst.

Grapii, Gyll.

Laccophilus, Lch.

minimus, L.

hyalinus, De G.

variegatus, St.

Noterus, Clair.

clavicornis, De G.
crassicornis, Müll.
sparsus, Msh.
? semipunctatus, F.

Hydroporus, Clair.

Hygrotus, Steph.
Cœlambus, p., Th.
reticulatus, F.
v. affinis, Steph.
5-lineatus, Zett.
insequalis, F.
decoratus, Gyll.
confluens, F.
9-lineatus, Steph.
parallelogrammus, Ahr.
picipes, F.
minutissimus, Germ.
geminus, F.
unistriatus, Schr.
bisulcatus, Curt.
pictus, F.
granularis, L.
flavipes, Ol.
septentrionalis, Gyll.
alpinus, Steph.
rivalis, Gyll.
fluvialis, Steph.
Davisi, Curt.
borealis, Aubé.
latus, Steph.
12-pustulatus, F.
depressus, F.
assimilis, Pk.
Halensis, F.
griseostriatus, De G.
dorsalis, F.
oblongus, Steph.
nitidus, St.
memnonius, Nic.
ferrugineus, Steph.
obsolete, Aubé.

piceus, Steph.
Gyllenhalli, Schröd.
rufifrons, Duft.
erythrocephalus, L.
derelictus, Clark.
marginatus, Duft.
lituratus, F.
xanthopus, Steph.
planus, F.
pubescens, Gyll.
discretus, Fair.
longicornis, Sharp.
parallelus, Sharp.
atriceps, Crotch.
melanocephalus, Gyll.
nigrita, F.
celatus, Clark.
melanarius, St.
monticola, Sharp.
melanocephala, Msh.
tristis, Pk.
neglectus, Schm.
umbrosus, Gyll.
minutus, Steph.
obscurus, St.
palustris, L.
6-pustulatus, F.
tinctus, Clark.
vittula, Er.
vagepunctatus, Fair.
incognitus, Sharp.
angustatus, St.
Scalesianus, Steph.
pygmæus, St.
lineatus, F.
pygmæus, F.
Hyphydrus, Ill.
ovatus, L.
v. variegatus, Steph.
Pelobius, Schön.
[*Hydrachna, F.*]
Hermannii, F.

| | |
|-----------------------------|----------------------------|
| Brychius, Th. | impressus, <i>F.</i> |
| elevatus, <i>Pz.</i> | flavicollis, <i>St.</i> |
| | affinis, <i>Steph.</i> |
| | cineraceus, <i>Aubé.</i> |
| Haliplus, Latr. | ruficollis, <i>De G.</i> |
| obliquus, <i>F.</i> | striatus, <i>Sharp.</i> |
| varius, <i>Nic.</i> | fluviatilis, <i>Aub.</i> |
| confinis, <i>Steph.</i> | lineatocollis, <i>Msh.</i> |
| mucronatus, <i>Steph.</i> | |
| variegatus, <i>St.</i> | |
| fulvus, <i>F.</i> | |
| interpunctatus, <i>Msh.</i> | |
| | Cnemidotus, Ill. |
| | cesus, <i>Duft.</i> |

CARABIDÆ.**Anterior tibæ entire.**One apical spine on the anterior tibæ, another preapical (*Elaphrinae*).Head ensconced in the prothorax *Notiophilus*.

Head not ensconced in the prothorax.

Prothorax with a dilated margin *Blethisa*.Prothorax without a dilated margin *Elaphrus*.

Two apical spines on the anterior tibiae.

Prosternum prolonged behind (*Carabinae*).

Labrum entire.

Mandibles dilated *Leistus*.

Mandibles not dilated.

Anterior tarsi broadly dilated in the male. *Pelophila*.Anterior tarsi not dilated in the male *Nebria*.

Labrum emarginate or bilobed.

With wings *Calosoma*.Wings absent or rudimentary *Carabus*.Prosternum not prolonged behind (*Cychrinae*). *Cychrus*.**Anterior tibæ emarginate externally.**

Abdomen with six segments.

Prothorax pedunculate behind.

Anterior tibæ dilated (*Scaritinae*).Prothorax globular *Dyschirius*.Prothorax quadrate *Clivina*.Anterior tibæ not dilated (*Broscinae*).Mandibles produced *Stomis*.

Mandibles not produced.

Antennæ with the joints 3-10 oboonie *Broscus*.Antennæ with the joints 5-10 submonili-form *Miscodera*

- Prothorax without a peduncle.**
- Palpi with the last joint minute, aciculate
(*Bembidiinae*).
Eyes large, prominent *Tachypus*.
Eyes of normal size, not prominent.
Antennæ filiform.
With a scutellar stria on the elytra *Bembidium*.
Without a scutellar stria *Tachys*.
- Antennæ slightly thicker outwardly.
Elytra parallel at the sides *Cillenum*.
Elytra rounded at the sides *Limneum*.
- Palpi with the last joint larger and not aciculate.
Anterior tarsi of the male dilated.
First two or three joints of the anterior tarsi quadrately dilated in the male
(*Chlaeniinae*).
Head constricted behind.
First three joints of the anterior tarsi dilated in the male *Loricera*.
First two joints of the anterior tarsi dilated in the male *Panagaeus*.
Head not constricted behind.
Prothorax with a dilated margin.
Last joint of the palpi securiform *Licinus*.
Last joint of the palpi oval *Badister*.
- Prothorax without a dilated margin.
Base of the elytra overlapped by the prothorax *Oodes*.
Base of the elytra not overlapped by the prothorax.
Last joint of the palpi pointed *Callistus*.
Last joint of the palpi truncate *Chlaenius*.
- First two or three joints of the anterior tarsi triangular.
Anterior tarsi with the first four joints dilated in the male (*Harpalinae*).
Anterior tarsi in the male scaly beneath.
Intermediate tarsi linear in both sexes. *Bradycellus*.
Intermediate tarsi dilated in the males.
Penultimate tarsal joint bilobed *Stenolophus*.
Penultimate tarsal joint not bilobed.
Last joint of the palpi pointed *Acupalpus*.
Last joint of the palpi truncate *Harpalus*.

- Anterior tarsi in the male hairy beneath.
 Tarsi pubescent above.
 Intermediate tarsi linear in both sexes. *Dichirotrichus*.
 Intermediate tarsi dilated in the male. *Diachromus*.
 Tarsi glabrous above..... *Anisodactylus*.
- Anterior tarsi with less than four dilated joints in the male (*Pogoninae*).
 First two joints of the anterior tarsi dilated in the male.
 Last joint of the palpi oboconic, pointed. *Aëpus*.
 Elytra flat, parallel at the sides
 Elytra convex, rounded.
 Penultimate joint of the maxillary palpi subsecuriform *Perileptus*.
 Penultimate joint of the maxillary palpi oboconic *Trechus*.
 Last joint of the maxillary palpi elongate, ovate.
 Prothorax transverse, subquadrate ... *Pogonus*.
 Prothorax subcordiform..... *Patrobus*.
- First three joints of the anterior tarsi dilated in the male (*Feroniinae*).
 Anterior tibiae elongate, slender.
 Mentum with a median tooth.
 Tooth simple..... *Anchomenus*.
 Tooth bifid.
 Last joint of the labial palpi securiform *Taphria*.
 Last joint of the labial palpi subcylindrical.
 Claws denticulate throughout..... *Calathus*.
 Claws not denticulate, or only at the base *Sphodrus*.
 Mentum without a median tooth *Olisthopus*.
- Anterior tibiae robust, thicker towards the apex.
 Anterior tibiae with one apical spine.
 Body oblong or elongate *Feronia*.
 Body shortly ovate *Amara*.
 Anterior tibiae with two apical spines. *Zabrus*.
- Anterior tarsi alike in both sexes (*Lebiinae*).
 Basal joint of the antennæ elongate.
 Penultimate tarsal joint bilobed *Drypta*.
 Penultimate tarsal joint entire *Polystichus*.

| | |
|--|-------------------------------|
| Basal joint of the antennæ not elongate. | |
| Prothorax narrow, subcylindrical | <i>Odacantha.</i> |
| Prothorax more or less transverse, or cordiform. | |
| Prothorax cordiform. | |
| Last joint of the labial palpi securiform | <i>Cymindis.</i> |
| Last joint of the labial palpi subcylindrical. | |
| Penultimate tarsal joint bilobed. | |
| Claws denticulate | <i>Demetrias.</i> |
| Claws simple | <i>Aëtophorus.</i> |
| Penultimate tarsal joint entire. | |
| Claws denticulate | <i>Dromius.</i> |
| Claws simple | <i>Lionychus.</i> |
| Prothorax transverse. | |
| Claws denticulate | <i>Lebia.</i> |
| Claws entire | <i>Masoreus.</i> |
| Abdomen with seven segments in both sexes | |
| (<i>Brachininae</i>) | <i>Brachinus.</i> |
|
Cillenum, Curt. |
guttula, <i>F.</i> |
| laterale, Curt. |
æneum, <i>Germ.</i> |
|
Tachyptus, Lac. |
biguttatum, <i>F.</i> |
| pallipes, <i>Duft.</i> |
<i>v. riparium, Pk.</i> |
| flavipes, <i>F.</i> |
guttula, <i>Redt.</i> |
|
Bembidium, Latr. |
Clarkii, <i>Daws.</i> |
| Ocydromus, <i>Clair.</i> |
assimile, <i>Gyll.</i> |
| Ocys, <i>p., Steph.</i> |
fumigatum, <i>Duft.</i> |
| Philochthus, <i>p., Steph.</i> |
4-maculatum, <i>L.</i> |
| Leja, <i>p., Meg.</i> |
4-pustulatum, <i>Dej.</i> |
| Lopha, <i>p., Meg.</i> |
4-guttatum, <i>F.</i> |
| Peryphus, <i>p., Meg.</i> |
articulatum, <i>Pz.</i> |
| Notaphus, <i>p., Meg.</i> |
Sturmii, <i>Pz.</i> |
| rufescens, <i>Guér.</i> |
Doris, <i>Pz.</i> |
| melanocephalum, <i>Steph.</i> |
gilvipes, <i>St.</i> |
| 5-striatum, <i>Gyll.</i> |
Schuppelii, <i>Dej.</i> |
| currens, <i>Steph.</i> |
minimum, <i>F.</i> |
| obtusum, <i>Stm.</i> |
pusillum, <i>Gyll.</i> |
| Mannerheimii, <i>Sahl.</i> |
<i>v. Normannum, Dej.</i> |
| guttula, var., <i>Duv.</i> |
lampros, <i>Hbst.</i> |
| |
<i>v. velox, Er.</i> |
| |
nigricorne, <i>Gyll.</i> |
| |
bipunctatum, <i>L.</i> |

decorum, *Pz.*
 monticola, *St.*
Stephensi, *Crotch.*
 affine, *Steph.*
 ? *brunnincorne*, *Dej.*
nitidulum, *Msh.*
 rufipes, *Gyll.*
 brunnipes, *St.*
atrocæruleum, *Steph.*
tibiale, *Duft.*
testaceum, *Duft.*
saxatile, *Gyll.*
v. elegans, *Steph.*
Andreas, *F.*
 femoratum, *St.*
anglicanum, *Sharp.*
rupestre, *L.*
 Bruxellense, *Wesm.*
littorale, *Ol.*
 Andreas, *Er.*
concinnum, *Steph.*
fluviatile, *Dej.*
lunatum, *Duft.*
stomoides, *Dej.*
pallidipenne, *Ill.*
 Andreas, *Gyll.*
flammulatum, *Clair.*
varium, *Ol.*
 ustulatum, *St.*
adustum, *Schm.*
 fumigatum, *Dej.*
 rupestre, *Daws.*
obliquum, *St.*
ephippium, *Msh.*
 pallidipenne, *Dej.*
prasinum, *Duft.*
punctulatum, *Drapiez.*
 ærosum, *Er.*
 velox, *Daws.*
paludosum, *Pz.*
 elegans, *Germ.*

Limneum, *Steph.*
nigropiceum, *Msh.*

Tachys, *Schm.*
Fockii, *Humm.*
4-signatus, *Duft.*
bistriatus, *Duft.*
scutellaris, *Germ.*

Perileptus, *Schm.*
Blemus, *Daws.*
areolatus, *Crz.*

Aëpus, *Sam.*
marinus, *Ström.*
 fulvescens, *Sam.*
Robinii, *Laboul.*

Trechus, *Clair.*
Epaphius, p., *Redt.*
discus, *F.*
 micros, *Hbst.*
 rubens, *Duft.*
longicornis, *St.*
rubens, *F.*
 paludosus, *St.*
minutus, *F.*
obtusus, *Er.*
lapidosus, *Daws.*
rivularis, *Gyll.*
 incilis, *Daws.*
secalis, *Pk.*

Bradycellus, *Er.*
cognatus, *Gyll.*
placidus, *Gyll.*
distinctus, *Dej.*
verbasci, *Duft.*
 fulvus, *Msh.*
harpalinus, *Dej.*
collaris, *Pk.*
similis, *Dej.*

Acupalpus, *Latr.*
Balius, p., *Schiödte.*
flavicollis, *St.*

- dorsalis*, *F.*
v. derelictus, *Daws.*
brunnipes, *St.*
exiguus, *Dej.*
v. luridus, *Daws.*
meridianus, *L.*
consputus, *Duft.*
- Stenolophus*, *Dej.***
Teutonus, *Schk.*
vaporiorum, *F.*
Skrimshiranus, *Steph.*
vespertinus, *Pz.*
elegans, *Dej.*
- Harpalus*, *Latr.***
Ophonus, *p.*, *Steph.*
sabulicola, *Pz.*
azureus, *Ol.*
obscurus, *F.*
rotundicollis, *Fair.*
obscurus, *Daws.*
punctatulus, *Duft.*
azureus, *Schiöd.*
azureus, *F.*
chlorophanus, *Pk.*
cordatus, *Duft.*
rupicola, *St.*
puncticollis, *Pk.*
rufibarbis, *F.*
cribellum, *Steph.*
parallelus, *Dej.*
ruficornis, *F.*
pubescens, *Müll.*
griseus, *Pz.*
bicolor, *Msh.*
honestus, *Duft.*
ignavus, *Duft.*
sulphuripes, *Germ.*
attenuatus, *Steph.*
consentaneus, *Dej.*
æneus, *F.*
azureus, *Pz.*
Proteus, *Pk.*
- cupreus*, *Steph.*
discoideus, *F.*
rubripes, *Duft.*
azureus, *St.*
latus, *L.*
fulvipes, *F.*
limbatus, *Duft.*
v. ruficeps, *Curt.*
metalloscens, *Pye.*
luteicornis, *Duft.*
servus, *Steph.*
neglectus, *Dej.*
tenebrosus, *Dej.*
Wollastoni, *Daws.*
melancholicus, *Dej.*
tardus, *Pz.*
rufimanus, *Msh.*
serripes, *St.*
casius, *St.*
depressus, *Duft.*
semiviolaceus, *Dej.*
servus, *Duft.*
anxius, *Duft.*
servus, *St.*
picipennis, *Duft.*
vernalis, *F.*
tibialis, *Msh.*
- Diachromus*, *Er.***
Germanus, *L.*
- Dichirotrichus*, *Duv.***
pubescens, *Pk.*
obsoletus, *Dej.*
- Anisodactylus*, *Dej.***
binotatus, *F.*
pocilloides, *Steph.*
v. atricornis, *Steph.*
- Zabrus*, *Clair.***
gibbus, *F.*
piger, *Fourc.*

- Amara, Bon.**
Celia, p., Zimm.
Curtonotus, p., Steph.
Bradytus, p., Zimm.
Percosia, p., Zimm.
strenua, Zimm.
plebeia, Gyll.
similata, Gyll.
ovata, F.
obsoleta, Dej.
communis, Pz.
vulgaris, Daws.
continua, Th.
lunicollis, Schiöd.
vulgaris, Pz.
curta, Dej.
trivialis, Gyll.
vulgaris, Duft.
spreta, Dej.
acuminata, Pk.
familiaris, Duft.
lucida, Duft.
tibialis, Pk.
ingenua, Duft.
Quenselii, Sch.
bifrons, Gyll.
orichalcica, Daws.
rufocincta, Dej.
infima, Duft.
aulica, Pz.
spinipes, Schiöd.
alpina, F.
convexuscula, Msh.
consularis, Duft.
fulva, De G.
apricaria, Pk.
patricia, Duft.
- Feronia, Latr.**
(Paeclus, Bon.)
- cuprea*, L.
versicolor, St.
dimidiata, Ol.
- levida*, F.
(Adelosia, Steph.)
picimana, Duft.
(Argutor, Meg.)
vernalis, Pz.
inæqualis, Msh.
strenua, Pz.
erythropus, Msh.
diligens, St.
strenua, Er.
(Omascus, Zieg.)
atterima, Pk.
nigra, Schal.
vulgaris, L.
melanaria, Ill.
nigrita, F.
anthracina, Ill.
gracilis, Dej.
minor, Gyll.
(Platysma, Bon.)
oblongo-punctata, F.
vitrea, Dej.
orinomum, Steph.
(Steropus, Meg.)
madida, F.
aethiops, Pz.
concinna, Curt.
(Pterostichus, Er.)
cristata, Duf.
parumpunctata, Germ.
(Abax, Bon.)
striola, F.
(Platyderus, Steph.)
ruficollis, Msh.
- Stomis, Clair.**
pumicatus, Pz.

- Olisthopus, Dej.**
rotundatus, Pk.
- Anchomenus, Bon.**
Platynus, Bon.
Agonum, Bon.
- juncetus, Scop.*
livens, Gyll.
dorsalis, Müll.
prasinus, Thunb.
albipes, F.
oblongus, F.
marginatus, L.
6-punctatus, L.
ericeti, Pz.
fulvus, Daws.
Müllerii, Hbst.
parumpunctatus, F.
laevis, Daws.
gracilipes, Duft.
viduus, Pz.
meestus, Duft.
versutus, St.
atratus, Duft.
micans, Nic.
pelidnus, Duft.
scitulus, Dej.
piceus, L.
gracilis, Gyll.
fuliginosus, Pz.
puelius, Dej.
pelidnus, Pk.
Thoreyi, Dej.
4-punctatus, De G.
- Taphria, Bon.**
Synuchus, Gyll.
nivalis, Pz.
- Calathus, Bon.**
cisteloides, Ill.
flavipes, Four.
fuscos, F.
ambiguus, Pk.
- mollis, Msh.*
ochropterus, Duft.
melanocephalus, L.
micropterus, Duft.
piceus, Msh.
- Sphodrus, Clair.**
Pristonychus, p., Dej.
- leucophthalmus, L.*
terricola, Hbst.
inæqualis, Pz.
subcylaneus, Ill.
- Patrobus, Dej.**
excavatus, Pk.
v. assimilis, Chaud.
septentrionis, Dej.
- Pogonus, Dej.**
Iuridipennis, Germ.
Burellii, Curt.
littoralis, Duft.
chalceus, Msh.
- Miscodera, Esch.**
Leiochiton, Curt.
- arctica, Pk.*
Readii, Curt.
- Broscus, Pz.**
cephalotes, L.
- Badister, Clair.**
unipustulatus, Bon.
bipustulatus, F.
sodalis, Duft.
humeralis, Bon.
peltatus, Pz.
- Licinus, Latr.**
silphoides, F.
depressus, Pk.

Oodes, Bon.
helopioides, F.

Chlaenius, Bon.
vestitus, Pk.
nitidulus, Schr.
Schrankii, *Duft.*
nigricornis, F.
v. fulgidus, Steph.
holosericeus, F.

Callistus, Bon.
lunatus, F.

Panagaeus, Latr.
Necydalis, p., *L.*
crux-major, *L.*
 bipustulatus, Ol.
4-pustulatus, *St.*

Loricera, Latr.
pilicornis, F.

Masoreus, Dej.
Wetterhalii, *Gyll.*
luxatus, *Dej.*

Cymindis, Latr.
Tarus, *Clair.*
axillaris, F.
v. lavigata, Steph.
vaporiariorum, *L.*

Lebia, Latr.
Lamprias, p., *Bon.*
cyancephala, L.
v. nigritarsis, Steph.
chlorocephala, *Hoffm.*
 rufipes, Steph.
crux-minor, *L.*
Turcica, *F.*
haemorrhoidalis, *F.*

Dromius, Bon.
Blechrus, *Mots.*
Metabletus, *S. Goeb.*
glabratus, *Duft.*
 femoralis, Msh.
maurus, *St.*
obscuroguttatus, *Duft.*
truncatellus, *L.*
foveola, *Gyll.*
longiceps, *Dej.*
linearis, *Ol.*
meridionalis, *Dej.*
agilis, *F.*
4-maculatus, *L.*
4-notatus, *Pz.*
4-signatus, *Dej.*
notatus, *Steph.*
 nigriventris, Th.
 fasciatus, Dej.
 oblitus, Boiel.
sigma, *Rossi.*
Vectensis, *Rye.*
melanocephalus, *Dej.*

Lionychus, Wiss.
quadrillum, *Duft.*

Demetrias, Bon.
unipunctatus, *Germ.*
 monostigma, Curt.
atricapillus, *L.*

Aëtophorus, S. Goeb.
imperialis, *Germ.*

Odacantha, Pk.
melanura, *L.*

Polystichus, Bon.
vittatus, *Br.*
 fasciolatus, F.

Drypta, F.

dentata, *Rossi*.
emarginata, *F.*

Brachinus, Weber.

crepitans, *L.*
explodens, *Duft.*
sclopeta, *F.*

Dyschirius, Bon.

globosus, *Hbst.*
gibbus, *F.*
minimus, *Curt.*
salinus, *Schm.*
angustatus, *Ahr.*
jejonus, *Daws.*
extensus, *Putz.*
v. elongatus, *Daws.*
impunctipennis, *Daws.*
arenosus, *Putz.*
nitidus, *Dej.*
inermis, *Curt.*
politus, *Dej.*
thoracicus, *Rossi*.
arenosus, *Steph.*
senecus, *Dej.*
v. tristis, *Steph.*

Clivina, Latr.

fossor, *L.*
collaris, *Hbst.*

Leistus, Froel.

Pogonophorus, *Latr.*
spinibarbis, *F.*
cæruleus, *Latr.*
montanus, *Steph.*
fulvibarbis, *Dej.*
ferrugineus, *L.*
rufescens, *F.*

Pelophila, Dej.

borealis, *Pk.*

Nebria, Latr.

Helobia, *Curt.*

complanata, *L.*
arenaria, *F.*
livida, *L.*
sabulosa, *F.*
brevicollis, *F.*
Gyllenhallii, *Sch.*

Calosoma, Weber.

inquisitor, *L.*
sycophanta, *L.*

Carabus, L.

Buprestis, *Geoff.*

intricatus, *L.*
cyaneus, *F.*
violaceus, *L.*
catenulatus, *Scop.*
nitens, *L.*
granulatus, *L.*
cancellatus, *F.*
arvensis, *F.*
clathratus, *L.*
auratus, *L.*
monilis, *F.*
convexus, *F.*
glabratus, *Pk.*
nemoralis, *Müll.*
hortensis, *F.*

Cychrus, F.

rostratus, *L.*

Blethisa, Bon.

multipunctata, *L.*

Elaphrus, F.

uliginosus, *F.*
cupreus, *Duft.*
Leponicus, *Gyll.*
riparius, *L.*

Notiophilus, *Duml.*

aquaticus, *L.*

rufipes, *Curt.*

palustris, *Dup.*

4-punctatus, *Dej.*

substriatus, *Wat.*

CICINDELIDÆ.

One British genus only.

Cicindela, *L.*

campestris, *L.*

hybrida, *L.*

v. maritima, *Dej.*

v. aprica, *Steph.*

v. sylvicola, *Curt.*

sylvatica, *L.*

Germanica, *L.*

ADDITIONS AND CORRECTIONS.

Page 4, line 7, for **DYTICIDÆ** read **DYTISCIDÆ***.

16, under **Monochamus**, *Serv.*, add *Monohammus*, *Lac.*

" " *sutor*, *L.*, add

Lamia, *F.*

textor, *L.*

17, under **Cryphalus**, *Er.*, add *Glyptoderes*, *p.*, *Eich.*

34, line 5 from bottom, for *Wall.* read *Woll.*

40, under **Bostrychus**, *Geoff.*, add [*Ligniperda*, *Pall.*].

* After Geoffroy, Gerstaecker, von Hayek, and others I adopted the orthography *Dyticus* (*δύτικός*); but I find that Agassiz derives the earlier *Dytiscus* from *δύρης*, and, although doubtful, I think it best to accept the more commonly received orthography. Schmarda insists upon *Ditiscus*.

INDEX.

Note.—When two or more numbers occur, the first refers to the genus which contains the species, the other number or numbers either refer to the genera in the Tables or they are synonyms.

- | | | |
|---------------------------------|-----------------------------------|-------------------------------------|
| <i>Abax</i> , 105. | <i>Aegialia</i> , 52, 50. | <i>Amphicyllis</i> , 69. |
| <i>Abdera</i> , 36, 35. | <i>Aëpus</i> , 103, 101. | <i>Amphotis</i> , 63, 62. |
| <i>Abræus</i> , 65. | <i>Aëtophorus</i> , 107,
102. | <i>Anaglyptus</i> , 15. |
| <i>Acalles</i> , 25, 23. | <i>Agabus</i> , 97, 96. | <i>Anaspis</i> , 34, 33. |
| <i>Acalyptus</i> , 26, 22. | <i>Agapanthia</i> , 16, 15. | <i>Anchomenus</i> , 106,
101. |
| <i>Acanthocinus</i> , 16. | <i>Agaricochara</i> , 88,
75. | <i>Ancyrophorus</i> , 81,
79. |
| <i>Achenium</i> , 84, 77. | <i>Agaricophagus</i> ,
69. | <i>Anisarthria</i> , 67. |
| <i>Acidotata</i> , 80, 77. | <i>Agathidium</i> , 69. | <i>Anisodactylus</i> ,
104, 101. |
| <i>Acilius</i> , 97, 96. | <i>Agelastica</i> , 8, 7. | <i>Anisosticta</i> , 6, 5. |
| <i>Acritus</i> , 65. | <i>Aglenus</i> , 60. | <i>Anisotoma</i> , 69. |
| <i>Acrognathus</i> , 81,
79. | <i>Agonum</i> , 106. | <i>Anisotomidae</i> , 68. |
| <i>Acrotrichis</i> , 66. | <i>Agrius</i> , 49. | <i>Anisoxya</i> , 36, 35. |
| <i>Acrulia</i> , 80. | <i>Agriotes</i> , 47. | <i>Anitys</i> , 42, 41. |
| <i>Actidium</i> , 67, 66. | <i>Aleochara</i> , 92, 74. | <i>Anobium</i> , 42, 41. |
| <i>Actinopteryx</i> , 66. | <i>Alexia</i> , 7, 6. | <i>Anomala</i> , 51. |
| <i>Actobius</i> , 84. | <i>Alophus</i> , 30, 21. | <i>Anommatus</i> , 58,
55. |
| <i>Actocharis</i> , 81, 75. | <i>Alphitobius</i> , 39,
38. | <i>Anoplodera</i> , 14. |
| <i>Acupalpus</i> , 103,
100. | <i>Alphitophagus</i> , 39,
38. | <i>Anoplus</i> , 29, 21. |
| <i>Acylophorus</i> , 86,
76. | <i>Amalus</i> , 25, 23. | <i>Anthaxia</i> , 49. |
| <i>Adalia</i> , 6, 5. | <i>Amara</i> , 105, 101. | <i>Anterophagus</i> ,
57, 56. |
| <i>Adelops</i> , 71, 70. | <i>Ammoeceius</i> , 52,
50. | <i>Anthicidae</i> , 2, 34. |
| <i>Adelosia</i> , 105. | <i>Ampedus</i> , 48. | <i>Anthicus</i> , 34. |
| <i>Aderus</i> , 35. | | <i>Anthobium</i> , 80, 77. |
| <i>Adimonia</i> , 8, 7. | | |
| <i>Adrastus</i> , 47. | | |

- Anthocomus*, 44.
Anthonomus, 22.
Anthophagus, 81,
 76.
Anthrenus, 55.
Anthribidæ, 2, 18.
Anthribus, 19.
Apate, 40.
Apbanisticus, 49.
Apodius, 52, 50.
Aphthona, 10, 8.
Apion, 28, 21.
Apotarsus, 48.
Apoderus, 28, 22.
Apteropeda, 9.
Argutor, 105.
Aromia, 15, 14.
Arpedium, 80, 77.
Asclera, 32.
Asemum, 15, 14.
Aspidiphorus, 42.
Astynomus, 16,
 15.
Atemeles, 91, 74.
Athous, 48, 46.
Atomaria, 57, 56.
Atopa, 46.
Attagenus, 55.
Attalabus, 39.
Attelabus, 27, 22,
 65.
Autalia, 93, 74.
Axinotarsus, 44.

Badister, 106, 100.
Bagous, 29, 21.
Balaninus, 26, 22.
Balanobius, 26.
Balius, 103.
Baptolinus, 84,
 75.
Baridius, 24.
Baris, 24, 23.
Barynotus, 32, 20.

Barypithea, 32, 19.
Bathyscia, 71.
Batophila, 9, 8.
Batrissus, 73, 72.
Bembidium, 102,
 100.
Berosus, 95, 94.
Biphyllus, 57, 56.
Bisnius, 84.
Bitoma, 60.
Blaps, 39, 38.
Blastophagus, 17.
Blatta, 39.
Blechrus, 107.
Bledius, 82, 78.
Blemus, 103.
Blethisa, 108, 99.
Boletaria, 58.
Bolitobius, 86, 78.
Bolitochara, 92,
 74.
Bolitophagus, 39,
 38.
Borboropora, 93,
 74.
Bostrychidæ, 3, 40.
Bostrychus, 40.
Brachinus, 108,
 102.
Brachonyx, 29,
 21.
Brachypterus, 63,
 61.
Brachysomus, 32.
Brachytarsus, 19,
 18.
Bradycellus, 103,
 100.
Bradytus, 105.
Brontes, 59.
Broscus, 106, 99.
Bruchidæ, 2, 18.
Bruchus, 18, 42.
Bryaxis, 73, 72.

Brychius, 99, 96.
Bryoporus, 86, 78.
Buprestidæ, 3, 49.
Buprestis, 108.
Byrrhidae, 4, 54.
Byrrhus, 55, 42,
 54.
Bythinus, 73, 72.
Byturus, 57, 56.

Cænopsis, 31, 20.
Cafius, 84.
Calandra, 24, 23.
Calathus, 106, 101.
Callicerus, 91, 74.
Callidium, 15, 14.
Callistus, 107, 100.
Calodera, 91, 73.
Calomericus, 8.
Calosoma, 108, 99.
Calyptomerus, 69,
 68.
Campta, 62.
Campylus, 47.
Cantharidæ, 2, 33.
Cantharis, 33.
Carabidæ, 4, 99.
Carabus, 108, 99.
Carcinops, 65, 64.
Cardiophorus, 48,
 47.
Carida, 36.
Carpalimus, 81.
Carpheborus, 17.
Carpophilus, 63,
 61.
Cassida, 7.
Cassididæ, 1, 7.
Cataphorticus, 31.
Cathamistes, 54.
Cathormiocerus,
 31, 20.
Catops, 71.
Celia, 105.

Centroglossa, 87.
Cephennium, 72,
 71.
Cerambycidæ, 2,
 14.
Ceranota, 92.
Cercus, 63, 61.
Cercyon, 93.
Cerophytum, 49.
Cerylon, 60.
Cetonia, 51.
Ceuthocerus, 65.
Ceuthorhynchus-
 dius, 24.
Ceuthorhynchus,
 24, 23.
Chætarthria, 95,
 94.
Chætocnema, 10,
 9.
Chilocorus, 6, 5.
Chilopora, 91, 74.
Chlænius, 107,
 100.
Choleva, 71, 70.
Choragus, 19.
Chrysomela, 12,
 11.
Chrysomelidæ, 1,
 11.
Cicindela, 109.
Cicindelidæ, 4,
 109.
Cicones, 60.
Cilea, 87, 78.
Cillenum, 102,
 100.
Ciodæ, 3, 40.
Cionus, 27, 22.
Cis, 40.
Cistela, 37, 55.
Cistelidæ, 3, 37.
Clambus, 69, 68.
Claviger, 72.

Cleonus, 30, 20.
Cleopus, 26.
Cleridæ, 3, 43.
Clerus, 43.
Clivina, 108, 99.
Clypeaster, 68.
Clytra, 12.
Clytus, 15, 14.
Cnemidotus, 99,
 96.
Cneorhinus, 32,
 20.
Coccidula, 5.
Coccinella, 6, 5.
Coccinellidæ, 1, 5.
Cœlambus, 98.
Cœliodes, 25, 23.
Cœnocara, 42, 41.
Colenis, 69.
Colon, 70.
Colydiidæ, 4, 60.
Colydium, 60.
Colymbetes, 97,
 96.
Comazus, 69.
Coniporus, 42, 41.
Conopalpus, 36,
 35.
Conosoma, 86, 78.
Conurus, 86.
Copris, 53, 50.
Coprophilus, 81,
 79.
Corticaria, 58, 55.
Corticeus, 39.
Corylophidæ, 4,
 68.
Corylophus, 68.
Corymbites, 47.
Corynetes, 43.
Coryphium, 80,
 76.
Cossonus, 24.
Crataræa, 92.

Cratonychus, 48.
Creophilus, 85, 76.
Crepidodera, 9; 8.
Crioceridæ, 1, 13.
Crioceris, 13.
Cryphalus, 17.
Crypta, 57.
Cryptarcha, 62,
 61.
Crypticus, 39, 38.
Cryptobium, 83,
 77.
Cryptocephalidæ,
 1, 12.
Cryptocephalus,
 12.
Cryptohypnus, 48,
 47.
Cryptophagidæ, 4,
 55.
Cryptophagus, 57,
 56.
Cryptopleurum,
 93.
Cryptorhynchus,
 26, 23.
Cteniopus, 37.
Ctenonychus, 47.
Cucujidæ, 4, 59.
Cucujus, 49.
Curelio, 30.
Curculionidæ, 2,
 19.
Curtonotus, 105.
Cybister, 97, 96.
Cychramus, 62,
 61.
Cyhrus, 108, 99.
Cyclonotum, 93.
Cyllidium, 95.
Cymindis, 107,
 102.
Cypha, 87.
Cyphæa, 88.

- | | | |
|------------------------------|-------------------------|-------------------------|
| Cyphon, 46. | Dorytomus, 29,
21. | Eros, 45, 43. |
| Cyrtotriplax, 7. | Drilus, 44, 43. | Erotylidæ, 1, 7. |
| Cyrtusa, 69. | Dromius, 107, 102. | Erycus, 29. |
| Cytillus, 54. | Drusilla, 91. | Eryx, 37. |
| Daene, 7. | Dryocœtes, 18, 17. | Esolus, 54. |
| Dascillidæ, 3, 45. | Dryophilus, 42,
41. | Eubria, 46. |
| Dascillus, 46, 45. | Dryops, 32, 54. | Eubrychius, 25,
23. |
| Daystes, 44. | Drypta, 108, 101. | Eucnemidæ, 3, 49. |
| Deleaster, 81, 79. | Dyschirius, 108,
99. | Eudectus, 80, 76. |
| Deliphrum, 80,
77. | Dysticidæ, 4, 96. | Euglenes, 35, 34. |
| Demetrias, 107,
102. | Dyticus, 97. | Eumicrus, 72, 71. |
| Dendrophagus,
59. | Dytiscus, 97, 96. | Euplectus, 72. |
| Dendrophilus, 65,
64. | Ecoptogaster, 17. | Euryporus, 86,
76. |
| Denticollis, 47. | Elachyx, 67. | Euryusa, 92, 75. |
| Deporaus, 27. | Elaphrus, 108, 99. | Eusomus, 32, 19. |
| Dermestidæ, 4, 55. | Elater, 48, 46. | Eusphalerum, 80. |
| Dermestes, 55, 57,
71. | Elateridæ, 3, 46. | Euthia, 72, 71. |
| Diacanthus, 47. | Elateroides, 43. | Evæsthetus, 82,
75. |
| Diachromus, 104,
101. | Elenchus, 33. | Exochomus, 6, 5. |
| Dianous, 83, 75. | Elleschus, 27, 22. | Falagria, 92, 74. |
| Diaperis, 39, 38. | Elmis, 54, 53. | Feronia, 105, 101. |
| Dichirotrichus,
104, 101. | Emus, 85, 76. | Forficula, 85. |
| Diglossa, 87, 75. | Encephalus, 88,
75. | Galeruca, 8, 7. |
| Dinarda, 91, 74. | Endomychidæ, 1,
6. | Galerucella, 8. |
| Dinoderus, 40. | Endomychus, 6. | Galerucidæ, 2, 7. |
| Dinopsis, 87, 75. | Endophloeus, 60. | Gastroidea, 12. |
| Diplocœlus, 57,
56. | Engis, 7. | Gastrophysa, 12,
11. |
| Dircæa, 36. | Enicmus, 58, 56. | Geodromicus, 81,
76. |
| Dirhagus, 49. | Ennearthron, 40. | Georyssidæ, 4, 54. |
| Dolichosoma, 44. | Enochrus, 95. | Georyssus, 54. |
| Dolopius, 47. | Epaphius, 103. | Geotrypes, 51, 50. |
| Donacia, 13. | Ephistemus, 58,
56. | Gibbium, 42, 41. |
| Dorcatoma, 42,
41. | Epilachna, 5. | Gnathocerus, 39,
38. |
| Dorcus, 53. | Epitrix, 9, 8. | Gnathoncus, 65. |
| | Epuræa, 63, 62. | Gnorimus, 51. |
| | Erirhinus, 29, 21. | Goërius, 85. |
| | Ernobius, 42, 41. | |

Gonioctena, 12,
11.
Gracilia, 15, 14.
Grammoptera, 14.
Gronops, 30, 20.
Gryphinus, 68.
Grypidius, 29, 21.
Gymnetron, 26,
23.
Gymnusa, 87, 73.
Gyrinidæ, 4, 95.
Gyrinus, 95.
Gyrohypnus, 84.
Gyrophæna, 88,
75.
Habrocerus, 87, 78.
Hæmonia, 13.
Halictophagus, 33.
Haliplus, 99, 96.
Hallomenus, 36.
Haltica, 9, 8.
Halticidæ, 1, 8.
Halyzia, 6, 5.
Haplocnemus, 44.
Haploderus, 81,
78.
Haploglossa, 92.
Harpalus, 104,
100.
Hedobia, 42, 41.
Heledona, 39, 38.
Heliopathes, 39,
37.
Helobia, 108.
Helochares, 95,
94.
Helodes, 46, 11.
Helophorus, 94.
Helops, 39.
Heptaulacus, 52,
50.
Hermæophaga, 9,
8.

Hetærius, 65, 64.
Heterhelus, 63.
Heteroceridæ, 4,
53.
Heterocerus, 53.
Heterothops, 86,
75.
Hippodamia, 5, 6.
Hister, 65, 64.
Histeridae, 3, 64.
Holoparamecus,
58, 56.
Homalium, 80,
77.
Homaloplia, 51,
50.
Homalota, 88, 75.
Homoeusa, 92, 74.
Hoplia, 51, 50.
Hydaticus, 97, 96.
Hydnobius, 70,
68.
Hydrachna, 98.
Hydræna, 94.
Hydrobius, 95,
94.
Hydrochares, 95.
Hydrochus, 94.
Hydrocyphen, 46.
Hydronomus, 29,
21.
Hydrophilidæ, 4,
93.
Hydrophilus, 95,
93.
Hydroporus, 98,
96.
Hydrous, 95, 93.
Hygromoma, 88,
75.
Hygrotus, 98.
Hylastes, 17, 16.
Hylecoetus, 43.
Hylesinus, 17.
Hylobius, 30, 21.
Hylotrypes, 15, 14.
Hylurgus, 17.
Hypera, 30, 21.
Hyperaspis, 6, 5.
Hyphdrus, 98, 96.
Hypocoprus, 58,
56.
Hypocyptus, 87,
78.
Hypolithus, 48.
Hypophlœus, 39.
Hypothenemus,
18, 17.
Hypulus, 36, 35.
Ilybius, 97, 96.
Ilyobates, 91, 73.
Ipidia, 63, 61.
Ips, 62, 18, 61.
Ischnodes, 48, 47.
Ischnoglossa, 92,
74.
Ischnomera, 32.
Ischnosoma, 86.
Isomira, 37.
Kateretes, 57.
Laccobius, 95, 94.
Laccophilus, 97,
96.
Lacon, 48, 46.
Leinophlœus, 59.
Lagria, 35.
Lagriidæ, 2, 35.
Lamia, 109, 15.
Lamiidæ, 2, 15.
Lamprias, 107.
Lamprinus, 87.
Lamprosoma, 12,
11.
Lampyris, 45, 43.
Lareynia, 53.

- | | | |
|---------------------|---------------------|---------------------|
| Laria, 63. | Liparus, 30. | Melandrya, 36, 35. |
| Larinus, 30, 21. | Lissodema, 37, 36. | Melandryidae, 2, |
| Lasia, 6, 5. | Litargus, 58, 56. | 35. |
| Lasioderma, 42, | Lithocharis, 83, | Melanotus, 47, 48. |
| 41. | 77. | Melasis, 49. |
| Lathrimæum, 80, | Litodactylus, 25, | Melasoma, 12. |
| 77. | 23. | Meligethes, 62, 61. |
| Lathrobium, 84, | Lixus, 30, 21. | Meloë, 33. |
| 77. | Lomechusa, 91. | Meloidæ, 2, 33. |
| Latridius, 58, 56. | Longitarsus, 10. | Melolontha, 51, |
| Lebia, 107, 102. | Lopha, 102. | 12, 50. |
| Leiochiton, 106. | Loricera, 107, 100. | Mesites, 24. |
| Leistotrophus, 85, | Lucanidæ, 3, 53. | Mesosa, 16, 15. |
| 76. | Lucanus, 53. | Metabletus, 107. |
| Leistus, 108, 99. | Ludius, 47. | Metallites, 31, 20. |
| Leja, 102. | Lycoperdina, 6. | Metocetus, 33. |
| Leuna, 13. | Lyctus, 40. | Mezium, 42, 41. |
| Leptacinus, 84, 75. | Lymexylidæ, 3, 43. | Miarus, 26, 23. |
| Leptinus, 71, 70. | Lymexylon, 43. | Micralymma, 80, |
| Leptura, 14. | Lyperus, 8. | 76. |
| Leptusa, 92, 74. | Lyprus, 29. | Micraspis, 6, 5. |
| Lepyrus, 30, 21. | Lyttä, 33. | Microglossa, 92. |
| Lesteva, 80, 76. | Macrocephalus, | Microglotta, 92, |
| Leucoparyphus, | 19. | 74. |
| 87. | Macronychus, 53. | Micropeplus, 79. |
| Licinus, 106, 100. | Macroplea, 13. | Microptilium, 67, |
| Ligniperda, 53, | Magdalinus, 26. | 66. |
| 109. | Magdalitis, 26, 22. | Microrhagus, 49. |
| Limnebius, 95, 94. | Malachius, 44. | Microsphæra, 68. |
| Limneum, 103, | Malthinus, 45, 44. | Microsporus, 68. |
| 100. | Malthodea, 44. | Microzoum, 39, |
| Limnichus, 54. | Mantura, 9. | 38. |
| Limnius, 54, 53. | Masoreus, 107, | Micrus, 67, 66. |
| Limobius, 30, 21. | 102. | Miscodera, 106, |
| Limonius, 48, 46. | Mecinus, 29, 21. | 99. |
| Lina, 12, 11. | Medon, 83. | Mniophila, 9. |
| Linozosta, 9. | Megacronus, 86, | Molorchus, 15, 14. |
| Liodes, 69. | 78. | Molytes, 30, 20. |
| Lionychus, 107, | Megapenthes, 48, | Monochamus, 16, |
| 102. | 47. | 15. |
| Liophloeus, 32, 20. | Megarthrus, 79. | Mononychus, 25, |
| Liopterus, 97. | Megasternum, 93. | 22. |
| Liopus, 16, 15. | Megatoma, 55. | Monotoma, 58, |
| Liosoma, 30, 20. | | 56. |

- | | | |
|---|---|--|
| <i>Mordella</i> , 34, 9,
33.
<i>Mordellidae</i> , 2, 33.
<i>Mordellistena</i> , 34,
33.
<i>Morychus</i> , 54.
<i>Murmidius</i> , 65.
<i>Mycetæa</i> , 7, 6.
<i>Mycetæidae</i> , 1, 6.
<i>Mycetochares</i> , 37.
<i>Mycetophagus</i> , 58,
56.
<i>Mycetophila</i> , 37.
<i>Mycetoporus</i> , 86,
78.
<i>Mycterus</i> , 32.
<i>Mylabris</i> , 18.
<i>Mylaechus</i> , 70.
<i>Myllæna</i> , 87, 75.
<i>Myrmecopora</i> , 91.
<i>Myrmecoxenus</i> ,
59.
<i>Myrmecodia</i> , 91,
74.
<i>Myrmetes</i> , 65.
<i>Mysia</i> , 5.
<i>Mystaxus</i> , 36.

<i>Nacerdes</i> , 32.
<i>Nanophyes</i> , 27,
22.
<i>Nausibius</i> , 59.
<i>Nebria</i> , 108, 99.
<i>Necrobia</i> , 43.
<i>Necrodes</i> , 71, 70.
<i>Necrophorus</i> , 71,
70.
<i>Necydalis</i> , 15, 32,
43, 107.
<i>Nemoicus</i> , 30.
<i>Nemosoma</i> , 61.
<i>Nephantes</i> , 67, 66.
<i>Niptus</i> , 42.
<i>Nitidula</i> , 63, 62. | <i>Nitidulidae</i> , 4, 61.
<i>Nossidium</i> , 68, 66.
<i>Notaphus</i> , 102.
<i>Notaris</i> , 29.
<i>Noterus</i> , 98, 96.
<i>Nothus</i> , 36.
<i>Notiophilus</i> , 109,
99.
<i>Notoxus</i> , 34.

<i>Oberea</i> , 16.
<i>Obrium</i> , 15, 14.
<i>Ocalea</i> , 92, 73.
<i>Ochina</i> , 42, 41.
<i>Ochthebius</i> , 94.
<i>Octotemnus</i> , 40.
<i>Ocydromus</i> , 102.
<i>Ocypus</i> , 85, 76.
<i>Ocys</i> , 102.
<i>Ocyusa</i> , 91, 74.
<i>Odacantha</i> , 107,
102.
<i>Odontæus</i> , 52, 50.
<i>Œdemera</i> , 32.
<i>Œdemeridae</i> , 2, 32.
<i>Oiceoptoma</i> , 71.
<i>Olibrus</i> , 64.
<i>Oligota</i> , 88, 75.
<i>Olisthopus</i> , 106,
101.
<i>Olophrum</i> , 80, 77.
<i>Omaseus</i> , 105.
<i>Omias</i> , 31, 20.
<i>Omophlus</i> , 37.
<i>Omosita</i> , 63, 62.
<i>Oncomera</i> , 32.
<i>Onthophagus</i> , 53,
50.
<i>Onthophilus</i> , 65,
64.
<i>Oodes</i> , 107, 100.
<i>Oomorphus</i> , 12.
<i>Opatrum</i> , 39, 38.
<i>Opilus</i> , 43. | <i>Ophonus</i> , 104.
<i>Orchesia</i> , 36.
<i>Orchestes</i> , 26, 22.
<i>Orecochilus</i> , 96,
95.
<i>Orobitis</i> , 25, 23.
<i>Orsodacna</i> , 14, 13.
<i>Orthocerus</i> , 80.
<i>Orthochætes</i> , 30,
20.
<i>Orthoperus</i> , 68.
<i>Osphya</i> , 36, 35.
<i>Othius</i> , 84, 75.
<i>Otiorhynchus</i> , 31,
20.
<i>Oxylæmus</i> , 60.
<i>Oxyomus</i> , 52, 50.
<i>Oxypoda</i> , 90, 74.
<i>Oxyporus</i> , 82, 76.
<i>Oxystoma</i> , 28.
<i>Oxytelus</i> , 81, 79.
<i>Oxythyrea</i> , 51.

<i>Pachyta</i> , 15, 14.
<i>Pæderus</i> , 83, 77.
<i>Panagæus</i> , 107,
100.
<i>Panus</i> , 26.
<i>Paracymus</i> , 95.
<i>Paramecosoma</i> ,
57, 56.
<i>Parnidæ</i> , 4, 53.
<i>Parnus</i> , 54, 36, 53.
<i>Paromalus</i> , 65, 64.
<i>Patrobus</i> , 106, 101.
<i>Pediacus</i> , 59.
<i>Pedilidæ</i> , 2, 34.
<i>Pedilophorus</i> , 54.
<i>Pelobius</i> , 98, 96.
<i>Pelophila</i> , 108, 99.
<i>Peltis</i> , 71.
<i>Pentarthrum</i> , 24,
23.
<i>Peroosia</i> , 105. |
|---|---|--|

- | | | |
|---------------------------|---------------------------|----------------------------|
| Perileptus, 103,
101. | Plagiogonus, 52,
50. | Psammobius, 52,
50. |
| Peritelus, 31, 20. | Platydema, 39, 38. | Psammœcus, 59. |
| Peryphus, 102. | Platyderus, 105. | Pselaphidae, 4, 72. |
| Phaedon, 12, 11. | Platynaspis, 6, 5. | Pselaphus, 73, 72. |
| Phalacridæ, 4, 64. | Platynus, 106. | Pseudochina, 42. |
| Phalacrus, 64. | Platypus, 18, 17. | Pseudopais, 79. |
| Phaleria, 39, 38. | Platyrhinus, 19. | Psiolothrix, 44. |
| Philhydrus, 95,
94. | Platysma, 105. | Psylliodes, 11, 9. |
| Philochthus, 102. | Platystethus, 81,
78. | Ptenidium, 67, 66. |
| Philonthus, 84,
76. | Platytaurus, 32,
19. | Pterophorus, 43. |
| Philorinum, 80,
77. | Plectroscelis, 10. | Pterostichus, 105. |
| Phlœobium, 79. | Plegaderus, 65, 64. | Pteryx, 67, 66. |
| Phloeocharis, 80,
78. | Plinthus, 30, 20. | Ptilinus, 42, 41. |
| Phloeocora, 88, 74. | Pocadius, 62, 61. | Ptilium, 67, 66. |
| Phloeophagus, 24,
23. | Podabrus, 45. | Ptinella, 67, 66. |
| Phloeophilus, 44. | Podagraria, 9. | Ptinidæ, 3, 41. |
| Phloeophthorus,
17. | Pœcilius, 105. | Ptinus, 42. |
| Phloeotrya, 36, 35. | Pogonochærus, 16,
15. | Ptomaphagus, 71. |
| Phosphaenus, 45,
43. | Pogonophorus,
108. | Pyrochroa, 34. |
| Phosphuga, 71. | Pogonus, 106, 101. | Pyrochroidæ, 2,
34. |
| Phratora, 11. | Polydrosus, 31,
20. | Pythidæ, 2, 36. |
| Phyllobius, 30, 20. | Polyopsia, 16. | Pytho, 37, 36. |
| Phyllobrotica, 8. | Polystichus, 107,
101. | Quedius, 85, 76. |
| Phyllopertha, 51. | Polystoma, 92. | Rhagium, 15, 14. |
| Phylloptreta, 10, 8. | Poophagus, 24, 23. | Rhagonycha, 45. |
| Phytobius, 25, 23. | Potaminus, 54, 53. | Rhamphus, 26, 23. |
| Phytocæcia, 16. | Prasocuris, 11. | Rhantua, 97. |
| Phytonomus, 30. | Pria, 63, 61. | Rhinocyllus, 30,
21. |
| Phytosus, 92, 74. | Priobium, 42, 41. | Rhinomacer, 27,
22, 32. |
| Pisodes, 29, 21. | Prionidæ, 2, 16. | Rhinoncus, 25, 23. |
| Pitophilus, 68. | Prionocyphon, 46. | Rhinosimus, 37,
36. |
| Pityophagus, 62. | Prionus, 16. | Rhinusa, 26. |
| Pityophthorus, 18,
17. | Prionychia, 37. | Rhipiphoridæ, 2,
33. |
| Placusa, 88, 75. | Pristonychus, 106. | Rhipiphorus, 33. |
| Plagiadera, 12, 11. | Procas, 29, 21. | Rhizobius, 5. |
| | Prognatha, 79. | Rhizophertha, 40. |
| | Protinus, 79. | |

Rhizophagus, 62.
 61.
Rhizotrogus, 51.
 50.
Rhopalodontus,
 40.
Rhynchites, 27.
 22.
Rhyncolus, 24.
Rhyssemus, 52.
 50.
Rhytidosoma, 25.
 23.
Rhytidosomus, 25.
Riolus, 54.
Rugilus, 83.

Sacium, 68.
Salpingus, 37, 36.
Saperda, 16, 15.
Saprinus, 65, 64.
Sarrotrium, 60.
Scaphidema, 39,
 38.
Scaphidiidæ, 4,
 66.
Scaphidium, 66.
Scaphisoma, 66.
Scarabæidæ, 3, 50.
Schistoglossa, 88,
 75.
Sciaphilus, 32, 19.
Scirtes, 46, 45.
Scolytidæ, 2, 16.
Scolytus, 17.
Scopæus, 83, 77.
Scaptia, 35, 34.
Scydmaenidæ, 4,
 71.
Scydmaenus, 72,
 71.
Scymnus, 5.
Selatosomus, 47.
Semiris, 91.

Serica, 51, 50.
Sericoderus, 68.
Sericosomus, 47.
Sericus, 47.
Sermyla, 8.
Seropalpus, 36,
 35.
Siagonium, 79.
Sibinia, 27, 22.
Sibynes, 27.
Silis, 45, 44.
Silpha, 71, 70.
Silphicæ, 4, 70.
Silussa, 92, 75.
Silvanus, 59.
Simplocaria, 54.
Sinodendron, 53.
Sitaris, 33.
Sitona, 31, 19.
Sitones, 31.
Sitophilus, 24.
Smicronyx, 29, 21.
Somatium, 88.
Soronia, 63, 62.
Spercheus, 95, 94.
Sphæridiidæ, 4,
 93.
Sphæridium, 93.
Sphærites, 70.
Sphærius, 68.
Sphæroderma, 9.
Sphærula, 27.
Splindus, 42, 41.
Sphodrus, 106,
 101.
Staphylinidæ, 4,
 73.
Staphylinus, 85,
 76.
Stenocorus, 15.
Stenolophus, 104,
 100.
Stenostola, 16.
Stenus, 82, 75.

Steropus, 105.
Stilbus, 64.
Stilicus, 83, 77.
Stomis, 105, 99.
Strangalia, 14.
Strophosomus, 32,
 19.
Stylopidae, 2, 33.
Stylops, 33.
Sunius, 83, 77.
Symbiotes, 7, 6.
Synaptus, 47.
Syncalypta, 55,
 54.
Synchita, 60.
Syntomium, 81,
 79.
Synuchus, 106.

Tachinus, 87, 78.
Tachyerges, 26,
 22.
Tachyporus, 87,
 78.
Tachypus, 102,
 100.
Tachys, 103, 100.
Tachyusa, 91, 74.
Tanymecus, 31,
 19.
Tanysphyrus, 29,
 21.
Taphria, 106, 101.
Tapinotus, 24, 23.
Tarsostenus, 43.
Tarus, 107.
Tasgius, 85.
Telephoridae, 3,
 43.
Telephorus, 45,
 44.
Telmatophilus,
 57, 56.
Tenebrio, 39.

INDEX.

| | | |
|--------------------------|----------------------------|-------------------------|
| Tenebrioides, 61. | Triarthron, 70, | Tychus, 73, 72. |
| Tenebrionidæ, 3,
37. | 68. | Typhæa, 58, 56. |
| Teredus, 60. | Tribolium, 39, 38. | Typhœus, 51. |
| Teretrius, 65, 64. | Trichius, 51. | |
| Tetratoma, 36, 35. | Trichoderma, 85. | Uleiota, 59. |
| Tetrops, 16. | Trichonyx, 73, 72. | Uloma, 39, 38. |
| Thalycra, 62, 61. | Trichophyia, 87, 78. | Urodon, 19. |
| Thanasimus, 43. | Trichopterygidæ,
4, 66. | Velleius, 85. |
| Thanatophilus,
71. | Trichopteryx, 66. | Volvox, 69. |
| Thiasophila, 92,
74. | Trimium, 72. | Vulda, 84. |
| Thinobius, 81, 79. | Trinodes, 55. | Xantholinus, 84,
75. |
| Throscidæ, 3. | Triphyllus, 58, 56. | Xestobium, 42,
41. |
| Throscus, 49. | Triplax, 7. | Xyleborus, 18, 17. |
| Thyamis, 10, 8. | Tritoma, 7, 58. | Xyletinus, 42, 41. |
| Thymalus, 61. | Trixagus, 57. | Xylita, 36, 35. |
| Tillus, 43. | Trogophlœus, 81,
79. | Xylocleptes, 18. |
| Timarcha, 12, 11. | Trogosita, 61. | Xylodrepa, 71. |
| Tiresias, 55. | Trogositidæ, 4, 61. | Xylophilus, 35. |
| Tomicus, 18, 17. | Trogus, 97. | Xyloterus, 18. |
| Tomoxia, 34, 33. | Tropideres, 19. | Zabrus, 104, 101. |
| Toxotus, 15, 14. | Tropiphorus, 30,
20. | Zeugophora, 13. |
| Trachyphlœus, 31,
20. | Trox, 51, 50. | Zilora, 36, 35. |
| Trachys, 49. | Trypodendron, 18,
17. | Zyras, 91. |
| Trechus, 103, 101. | Tychius, 27, 22. | |

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